

## Test

1

Total mark

5

1 Choose the correct answer :

(3 marks)

1  $1 - \frac{1}{3} - \frac{1}{5} = \dots\dots\dots$

(a)  $\frac{7}{20}$

(b)  $\frac{7}{15}$

(c)  $\frac{12}{17}$

(d)  $\frac{5}{8}$

2 If  $5 \frac{n}{18}$  is about 5 , then n may be .....

(a) 8

(b) 17

(c) 2

(d) 12

3 The opposite number line is used to solve the problem .....



(a)  $3 \frac{1}{4} + 5 \frac{1}{2}$

(b)  $3 \frac{1}{4} - 2 \frac{1}{2}$

(c)  $5 \frac{1}{2} - 3 \frac{1}{4}$

(d)  $5 \frac{1}{4} + 3 \frac{1}{2}$

2 Nancy spends  $\frac{2}{7}$  of her salary for food and uses  $\frac{1}{2}$  of her salary for paying the house rent. **What fraction of salary is left ?**

(2 marks)

.....

.....

.....

.....

## Test

## 2

Total mark

5

## 1 Choose the correct answer :

(3 marks)

1  $2\frac{1}{3}$  hours = ..... minutes

(a) 150

(b) 120

(c) 130

(d) 140

2  $X + 4\frac{1}{4} = 5\frac{1}{2}$ , then  $X =$  .....

(a)  $\frac{1}{2}$ (b)  $\frac{1}{4}$ (c)  $1\frac{1}{2}$ (d)  $1\frac{1}{4}$ 

3 Which of the following is underestimate ?

(a)  $\frac{3}{4} + \frac{3}{8}$  is about  $1\frac{1}{2}$ (b)  $\frac{5}{8} + \frac{4}{7}$  is about 1(c)  $\frac{4}{5} + \frac{2}{5}$  is about  $1\frac{1}{2}$ (d)  $\frac{3}{7} + \frac{4}{10}$  is about 1

2 Zeiad walked  $1\frac{3}{4}$  km, Ahmed walked  $\frac{1}{5}$  km more than Zeiad and Ramy walked  $\frac{3}{10}$  km less than Ahmed.

How many km Ramy walked ?

(2 marks)

.....

.....

.....

.....

## Test

## 3

Total mark

5

## 1 Choose the correct answer :

(3 marks)

1 Which of the following is not equivalent to  $\frac{15}{20}$  ?

(a)  $\frac{3}{4}$

(b)  $\frac{30}{40}$

(c)  $\frac{25}{100}$

(d)  $\frac{9}{12}$

2 Using the fraction tiles , the sum of :  $\frac{2}{3} + \frac{5}{6} = \dots\dots\dots$ 

(a)  $1\frac{1}{2}$

(b)  $\frac{7}{9}$

(c)  $\frac{4}{3}$

(d)  $\frac{11}{6}$

3  $1\frac{4}{5} - 1\frac{1}{20} = \dots\dots\dots$ 

(a)  $\frac{7}{20}$

(b)  $\frac{4}{3}$

(c)  $\frac{3}{4}$

(d)  $1\frac{1}{5}$

2 Estimate the sum and the difference using the benchmarks 0 ,  $\frac{1}{2}$  and 1 (2 marks)

1  $\frac{7}{8} - \frac{1}{5} = \dots\dots\dots$

2  $\frac{5}{9} + \frac{4}{7} = \dots\dots\dots$

## Test

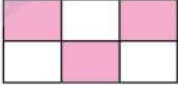
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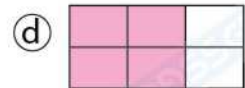
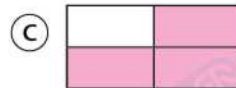
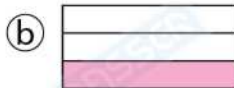
Total mark

5

## 1 Choose the correct answer :

(3 marks)

1  is equivalent to .....



2  $\frac{3}{4}$  year = ..... months

(a) 3

(b) 6

(c) 9

(d) 12

3  $9\frac{4}{7} - 9\frac{1}{7} = \dots\dots\dots$

(a) 0

(b)  $9\frac{3}{7}$ (c)  $\frac{3}{7}$ (d)  $1\frac{2}{7}$ 

2 Marwan studied math for  $3\frac{1}{2}$  hours and science for 90 minutes.

How many hours did Marwan study in all ?

(2 marks)

.....

.....

.....



## Test

5

Total mark

5

## 1 Choose the correct answer :

(3 marks)

1  $2\frac{1}{3} + 1\frac{2}{5}$  can be rewrite as .....

(a)  $\frac{6}{3} + \frac{5}{5}$

(b)  $\frac{7}{3} + \frac{5}{7}$

(c)  $(2 + 1) + (\frac{1}{3} + \frac{2}{5})$

(d)  $3\frac{1}{2} + 5\frac{1}{2}$

2 Two fractions  $3\frac{2}{3}$  and  $5\frac{1}{6}$  with like denominators are .....

(a)  $3\frac{2}{3}$  and  $5\frac{1}{6}$

(b)  $\frac{11}{3}$  and  $\frac{31}{3}$

(c)  $3\frac{4}{6}$  and  $5\frac{1}{6}$

(d)  $3\frac{2}{3}$  and  $5\frac{2}{6}$

3  $\frac{5}{12} + \frac{1}{4}$  ☐  $\frac{1}{3} + \frac{1}{4}$ 

(a)  $>$

(b)  $<$

(c)  $=$

## 2 Use an area model to add.

(2 marks)

$2\frac{3}{5} + 1\frac{1}{2} = \dots\dots\dots$

			+		
--	--	--	---	--	--

## Answers of Test

1

1 1 b

2 c

3 c

2 Nancy spent =  $\frac{2}{7} + \frac{1}{2} = \frac{4}{14} + \frac{7}{14} = \frac{11}{14}$  of her salary

The left =  $1 - \frac{11}{14} = \frac{14}{14} - \frac{11}{14} = \frac{3}{14}$  of her salary.

**Another solution :**

The left =  $1 - \frac{2}{7} - \frac{1}{2} = \frac{14}{14} - \frac{4}{14} - \frac{7}{14} = \frac{3}{14}$  of her salary

## Answers of Test

2

1 1 d

2 d

3 b

2 Ahmed walked =  $1\frac{3}{4} + \frac{1}{5} = 1\frac{15}{20} + \frac{4}{20} = 1\frac{19}{20}$  km

Ramy walked =  $1\frac{19}{20} - \frac{3}{10} = 1\frac{19}{20} - \frac{6}{20} = 1\frac{13}{20}$  km

## Answers of Test

3

1 1 c

2 a

3 c

2 1  $1 - 0 = 1$

2  $\frac{1}{2} + \frac{1}{2} = 1$

## Answers of Test

4

1 1 a

2 c

3 c

2 The total time =  $3\frac{1}{2}$  hours + 90 minutes =  $3\frac{1}{2} + 1\frac{1}{2} = (3 + 1) + (\frac{1}{2} + \frac{1}{2})$   
=  $4 + 1 = 5$  hours.

## Answers of Test

5

1 1 c

2 c

3 a

2  +  =  $3\frac{11}{10} = 4\frac{1}{10}$

## Cumulative Assessment

## 1

## On lesson (1) unit 7

### 1. Complete the following.

a. The LCM of denominators of  $\frac{5}{7}$  and  $\frac{3}{4}$  is \_\_\_\_\_

b. The shaded part  represents  $\frac{\quad}{\quad}$

c. The smallest like denominator of  $\frac{5}{6}$  and  $\frac{3}{4}$  is \_\_\_\_\_

d.  $\frac{7}{12} - \frac{3}{12} =$  \_\_\_\_\_

e.  $1 - \frac{1}{8} =$  \_\_\_\_\_

f.  $\frac{5}{8} +$  \_\_\_\_\_  $= \frac{3}{4} + \frac{1}{4}$

### 2. Choose the correct answer from these ones.

a. The simplest form of  $\frac{12}{18}$  is \_\_\_\_\_

A.  $\frac{2}{8}$

B.  $\frac{2}{3}$

C.  $\frac{18}{12}$

D. 1

b. The LCM of denominators of  $\frac{1}{2}$  and  $\frac{3}{10}$  is \_\_\_\_\_

A. 1

B. 2

C. 3

D. 10

c. Which of the following is correct ?

A.  $\frac{3}{4} = \frac{4}{3}$

B.  $\frac{5}{8} = \frac{15}{18}$

C.  $\frac{1}{2} = \frac{6}{12}$

D.  $\frac{3}{5} = \frac{5}{7}$

d. The two fractions  $\frac{1}{5}$  and  $\frac{1}{4}$  are equivalent to the two common denominator fractions \_\_\_\_\_

A.  $\frac{4}{5}$  and  $\frac{5}{4}$

B.  $\frac{4}{9}$  and  $\frac{5}{9}$

C.  $\frac{4}{45}$  and  $\frac{5}{45}$

D.  $\frac{5}{20}$  and  $\frac{4}{20}$

e.  $\frac{3}{7} + \frac{4}{7} =$  \_\_\_\_\_

A.  $\frac{7}{14}$

B. 1

C.  $\frac{34}{77}$

D.  $1\frac{7}{7}$

f.  $\frac{5}{15}$  \_\_\_\_\_  $\frac{1}{3}$

A. >

B. <

C. =

3. a. Mazen ate  $\frac{1}{2}$  of a pizza and Essam ate  $\frac{1}{3}$  of the same pizza.

Write their fractions with like denominators using a visual model.

b. Essam spent  $\frac{1}{6}$  of his salary for renting a flat and  $\frac{3}{4}$  of his salary for eating and clothing.

Write their fractions with like denominators.

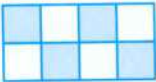


## Cumulative Assessment

2

## Till lessons (2 &amp; 3) unit 7

## 1. Complete the following.

- a. The shaded part of  represents  $\frac{\quad}{2}$
- b.  $\frac{3}{4} - \frac{1}{4} = \frac{\quad}{2}$
- c.  $\frac{7}{8} + \frac{2}{5}$  is estimated as  $1 + \frac{\quad}{\quad}$
- d. The LCM of denominators of  $\frac{3}{4}$  and  $\frac{3}{5}$  is  $\frac{\quad}{\quad}$

## 2. Choose the correct answer from these ones.

- a. Which of the following is overestimate ?
- A.  $\frac{9}{8} + \frac{1}{3}$  is about 1                      B.  $\frac{1}{7} + \frac{1}{4}$  is about 0
- C.  $\frac{2}{5} + \frac{3}{8}$  is about 1                      D.  $\frac{10}{12} + \frac{4}{5}$  is about 1
- b. By using the fraction tiles, the difference  $\frac{1}{2} - \frac{1}{5} = \frac{\quad}{\quad}$
- A.  $\frac{1}{3}$                       B.  $\frac{3}{10}$                       C.  $\frac{1}{4}$                       D.  $\frac{1}{7}$
- c. Estimate the sum of  $\frac{3}{5} + \frac{7}{8}$  using benchmarks, the sum is  $\frac{\quad}{\quad}$
- A. 2                      B.  $1\frac{1}{2}$                       C. 1                      D.  $\frac{1}{2}$
- d.  $\frac{1}{6} + \frac{6}{7}$  is estimated as  $\frac{\quad}{\quad}$
- A.  $\frac{1}{2} + \frac{1}{2}$                       B.  $0 + 1$                       C.  $0 + \frac{1}{2}$                       D.  $\frac{1}{2} + 1$

## 3. Estimate the sum using the benchmarks, then indicate whether the estimation is overestimate or underestimate.

- a.  $\frac{2}{5} + \frac{3}{7}$                       b.  $\frac{7}{12} + \frac{12}{11}$
- c.  $\frac{1}{3} + \frac{1}{9}$                       d.  $\frac{9}{10} + \frac{8}{9}$

## 4. Use the fraction tiles to evaluate each sum or difference.

- a.  $\frac{7}{10} - \frac{1}{2}$                       b.  $\frac{2}{4} - \frac{2}{8}$
- c.  $\frac{3}{10} - \frac{1}{5}$                       d.  $\frac{5}{8} + \frac{1}{4}$



## Cumulative Assessment

3

Till lessons (4 &amp; 5) unit 7

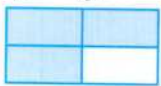

## 1. Complete the following.

a.  $1 - \frac{1}{3} - \frac{2}{5} =$  \_\_\_\_\_

b. Using benchmarks,  $\frac{8}{9} - \frac{1}{7} =$  \_\_\_\_\_  $=$  \_\_\_\_\_

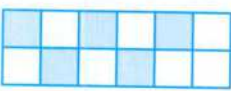
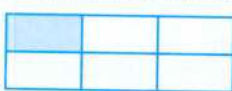
c.  $\frac{6}{7} + \frac{1}{42} =$  \_\_\_\_\_

d.  $\frac{1}{6} + \frac{5}{8} =$  \_\_\_\_\_

e.  +  = \_\_\_\_\_

f.  $\frac{7}{12} + \frac{9}{10}$  is estimated as \_\_\_\_\_

## 2. Choose the correct answer from these ones.

a.  +  = \_\_\_\_\_

A.  $\frac{8}{12}$

B.  $\frac{7}{12}$

C.  $\frac{7}{6}$

D.  $\frac{5}{6}$

b.  $\frac{3}{4} - \frac{3}{5} =$  \_\_\_\_\_

A.  $\frac{3}{20}$

B.  $\frac{3}{1}$

C.  $\frac{27}{20}$

D. 1

c.  $1 + \frac{7}{10} + \frac{1}{5} =$  \_\_\_\_\_

A.  $\frac{9}{15}$

B.  $\frac{9}{10}$

C.  $\frac{19}{10}$

D.  $9\frac{1}{10}$

d.  $\frac{5}{8} + \frac{1}{2} = 1 +$  \_\_\_\_\_

A.  $\frac{1}{2}$

B.  $\frac{1}{8}$

C.  $\frac{1}{5}$

D.  $\frac{3}{4}$

e. Which of the following is not equivalent to  $\frac{6}{8}$ ?

A.  $\frac{3}{4}$

B.  $\frac{60}{80}$

C.  $\frac{12}{18}$

D.  $\frac{30}{40}$

f. When estimate the sum of  $\frac{1}{4} + \frac{11}{10}$  is about 1, the estimation is \_\_\_\_\_

A. Overestimate. B. Underestimate.

## 3. Estimate each sum or difference, then evaluate each expression by rewriting the fractions with like denominators.

a.  $\frac{11}{12} + \frac{7}{8}$

b.  $\frac{5}{6} + \frac{2}{3}$

c.  $\frac{9}{10} - \frac{1}{5}$

d.  $\frac{3}{7} - \frac{1}{8}$

## Cumulative Assessment

4

Till lesson (6) unit 7

1. Choose the correct answer from these ones.

a.  $\frac{9}{12} - \frac{5}{12} =$  \_\_\_\_\_

A. 4

B.  $\frac{1}{3}$ C.  $\frac{14}{12}$ D.  $\frac{1}{4}$ 

b.  $1 - \frac{1}{2} - \frac{1}{3} =$  \_\_\_\_\_

A.  $\frac{1}{2}$ B.  $\frac{1}{3}$ C.  $\frac{1}{5}$ D.  $\frac{1}{6}$ 

c. The GCF of numerator and denominator of  $\frac{27}{18}$  is \_\_\_\_\_

A. 1

B. 3

C. 9

D. 18

d.  $\frac{1}{4} + \frac{8}{9}$  is estimated as \_\_\_\_\_

A. 0

B.  $\frac{1}{2}$ 

C. 1

D.  $1\frac{1}{2}$ 

2. Marvinna has a full bottle of juice. If she drinks  $\frac{4}{7}$  of the juice and her sister drinks  $\frac{2}{5}$  of the juice. **How much juice is left in the bottle ?**

\_\_\_\_\_

3. Sandy made two types of cookies. She used  $\frac{2}{3}$  cup of sugar for one recipe and  $\frac{1}{4}$  cup of sugar for the other. **How much sugar did she use in all ?**

\_\_\_\_\_

4. Youssef went out for a long walk. Youssef walked  $\frac{3}{4}$  kilometers and then sit down to take a rest , then Youssef walked  $\frac{3}{8}$  kilometers. **How far did Youssef walk altogether ?**

\_\_\_\_\_

5. An octopus weighed  $\frac{5}{6}$  kilogram. After two weeks ,its weight was increased by  $\frac{3}{10}$  kilogram but afterwards , it lost  $\frac{1}{5}$  kilogram of its weight as it was sick. **What is the weight of the octopus now ?**

\_\_\_\_\_

## Cumulative Assessment

5

Till lessons (1 to 3) unit 8

1. Find the result of each of the following.

a.  $7\frac{2}{7} + 1\frac{3}{7} =$  \_\_\_\_\_

b.  $2\frac{1}{4} - 1\frac{3}{4} =$  \_\_\_\_\_

c.  $2\frac{5}{6} + 3\frac{1}{6} =$  \_\_\_\_\_

d.  $1\frac{7}{9} - 1\frac{4}{9} =$  \_\_\_\_\_

2. Choose the correct answer from these ones.

a.  $1\frac{5}{11} + 2\frac{1}{8}$  estimate as \_\_\_\_\_

A.  $1 + 2$

B.  $1 + 2\frac{1}{2}$

C.  $1\frac{1}{2} + 2$

D.  $2 + 2$

b. If  $5\frac{1}{4} - 4\frac{a}{4} = \frac{3}{4}$ , then  $a =$  \_\_\_\_\_

A. 1

B. 2

C. 3

D. 4

c. The mixed number  $2\frac{1}{7}$  can be regrouped as \_\_\_\_\_

A.  $1\frac{8}{7}$

B.  $2\frac{8}{7}$

C.  $1\frac{1}{14}$

D.  $1\frac{7}{8}$

d.  $1\frac{1}{2} + 7\frac{1}{2} =$  \_\_\_\_\_

A.  $8\frac{1}{2}$

B. 9

C. 8

D.  $8\frac{1}{4}$

3. Rewrite the given two mixed numbers with like denominators.

a.  $1\frac{2}{5}$  and  $3\frac{28}{35}$

b.  $2\frac{3}{4}$  and  $2\frac{8}{30}$

c.  $4\frac{4}{6}$  and  $3\frac{3}{15}$

d.  $3\frac{1}{7}$  and  $1\frac{8}{14}$

4. Complete the following.

a. If  $X + 2\frac{1}{8} = 5\frac{3}{8}$ , then  $X =$  \_\_\_\_\_

b.  $8\frac{2}{3} + 1\frac{5}{6}$  is estimated as \_\_\_\_\_ + \_\_\_\_\_

c. If  $\frac{23}{5}$  is equivalent to  $m\frac{3}{5}$ , then  $m =$  \_\_\_\_\_

d. If  $y - 3\frac{1}{4} = 3\frac{3}{4}$ , then  $y =$  \_\_\_\_\_

## Cumulative Assessment

6

Till lessons (4 to 6) unit 8

## 1. Choose the correct answer from these ones.

a. If  $2\frac{1}{4} - n = \frac{3}{4}$ , then  $n =$  \_\_\_\_\_

A. 2

B.  $\frac{3}{4}$ 

C. 3

D.  $1\frac{1}{2}$ 

b. If  $5\frac{1}{4} + 2\frac{3}{4} = X - \frac{1}{3}$ , then  $X =$  \_\_\_\_\_

A.  $8\frac{1}{3}$ 

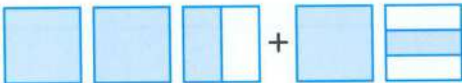

B. 8

C.  $7\frac{3}{4}$ D.  $7\frac{2}{3}$ 

c. Which of the following is overestimate ?

A.  $\frac{2}{5} + \frac{3}{7}$  is about 1B.  $\frac{5}{6} + \frac{5}{7}$  is about 1C.  $\frac{7}{8} + \frac{1}{3}$  is about 1D.  $\frac{11}{10} + \frac{7}{6}$  is about 2d. The equivalent fraction of  $\frac{3}{6}$  is \_\_\_\_\_A.  $\frac{3}{5}$ B.  $\frac{2}{6}$ C.  $\frac{15}{30}$ D.  $\frac{2}{5}$ 

## 2. Complete the following.

a.  +  = \_\_\_\_\_

b. If  $3\frac{1}{5} - 2\frac{3}{5} = a\frac{6}{5} - 2\frac{3}{5}$ , then  $a =$  \_\_\_\_\_

c. If  $5\frac{3}{7} - 1\frac{4}{7} = 5\frac{6}{7} - a$ , then  $a =$  \_\_\_\_\_

d.  $5\frac{1}{4} + 3\frac{2}{9} =$  \_\_\_\_\_

## 3. Use the number line to find the difference.

a.  $4\frac{1}{3} - 1\frac{1}{2}$

b.  $6\frac{4}{5} - 4\frac{1}{4}$

4. Hany collected  $5\frac{1}{4}$  kilograms of honey. He gave his brother  $2\frac{3}{7}$  kilograms of them.  
How many kilograms are left ?



## Cumulative Assessment

7

Till lessons (7 &amp; 8) unit 8

1. Choose the correct answer from these ones.

a.  $5 - \frac{1}{2} - \frac{1}{3} =$  \_\_\_\_\_

A.  $4\frac{5}{6}$

B.  $4\frac{1}{2}$

C.  $4\frac{1}{6}$

D.  $4\frac{3}{4}$

b. If  $3\frac{1}{7} = 2\frac{X}{7}$  by regrouping, then X = \_\_\_\_\_

A. 1

B. 2

C. 3

D. 8

c.  $2\frac{1}{2}$  days = \_\_\_\_\_ hours.

A.  $\frac{5}{2}$

B. 48

C. 36

D. 60

d. The simplest form of  $\frac{24}{36}$  is \_\_\_\_\_

A.  $\frac{12}{18}$

B.  $\frac{6}{9}$

C.  $\frac{8}{12}$

D.  $\frac{2}{3}$

2. Marwan ate  $1\frac{1}{2}$  pieces of chocolate. His friend Wael ate  $\frac{3}{4}$  pieces of chocolate more than him. How many pieces did they eat together?

\_\_\_\_\_

\_\_\_\_\_

3. Complete the following.

a.  $\frac{1}{5}$  minute = \_\_\_\_\_ seconds.

b.  $2\frac{1}{4}$  years = \_\_\_\_\_ months.

c. 18 hours = \_\_\_\_\_ day.

d. 200 minutes = \_\_\_\_\_ hours.

e.  $5\frac{1}{2} - \frac{3}{4} =$  \_\_\_\_\_

f.  $2\frac{1}{4} + 2\frac{1}{4} =$  \_\_\_\_\_

4. Jack bought  $1\frac{1}{4}$  kg of tomato and  $\frac{1}{2}$  kg of onion. His sister Julia bought  $2\frac{3}{4}$  kg of fruits. How many kilograms did they buy?

\_\_\_\_\_

\_\_\_\_\_

5. In first day, Youssef run for  $1\frac{1}{2}$  hours. In second day, he run for  $1\frac{3}{8}$  hours. In third day, he run for 80 minutes. How long did Youssef run in the three days?

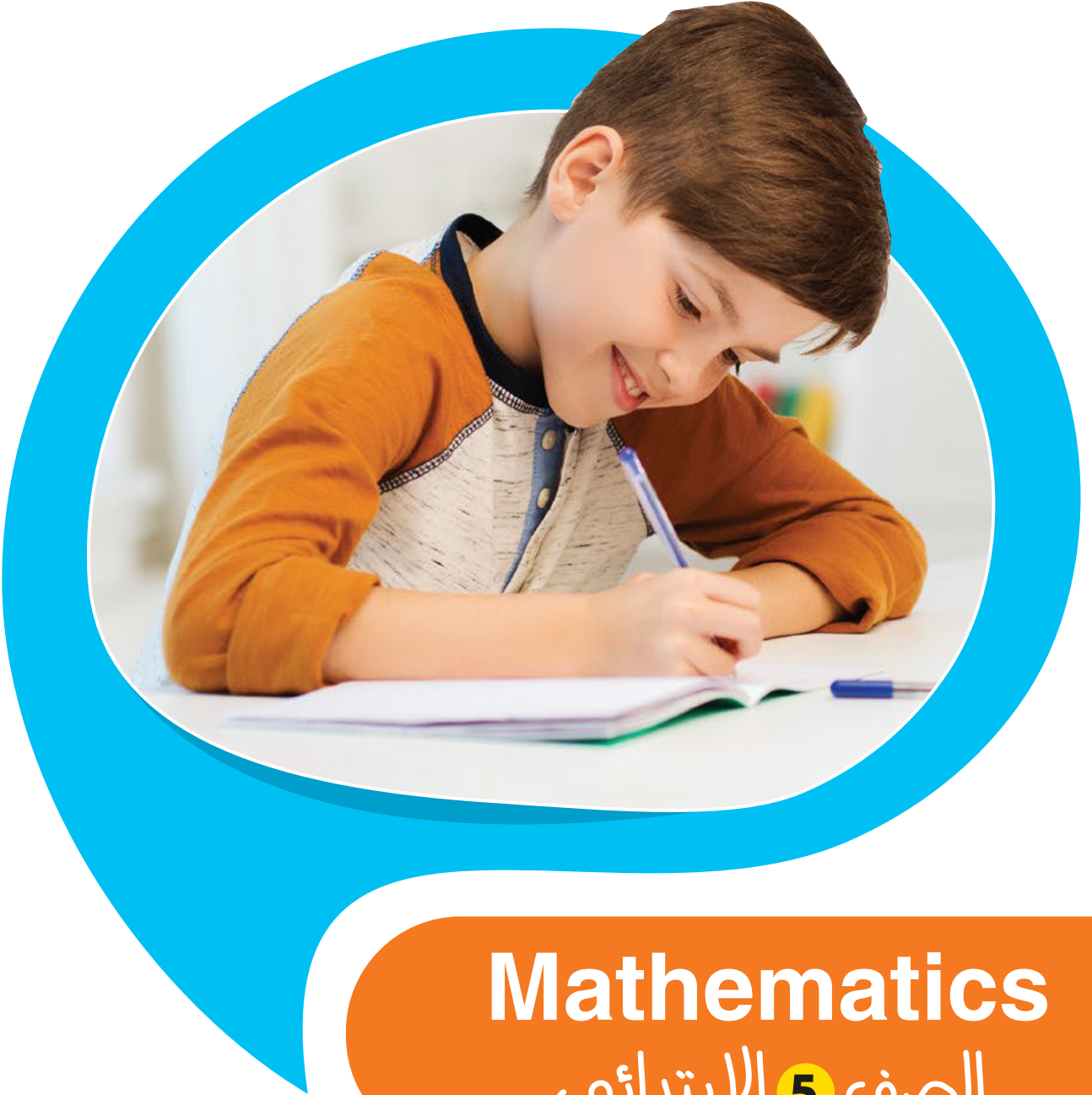
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\_\_\_\_\_



**ALADWANA**

**Gem**



**Mathematics**

الصف 5 الابتدائي

مقترح النماذج الاسترشادية لشهر مارس

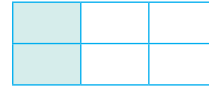
العام الدراسي 2022 - 2023

## Model (1)

## 1 Choose the correct answer:

3

- a The fraction which represents the colored part in the



opposite model = .....

•  $\frac{2}{4}$

•  $\frac{4}{6}$

•  $\frac{1}{6}$

•  $\frac{2}{6}$

- b The simplest form of  $2\frac{4}{16}$  is .....

•  $1\frac{1}{4}$

•  $2\frac{2}{4}$

•  $\frac{1}{4}$

•  $2\frac{1}{4}$

- c  $7\frac{3}{4} + 1\frac{1}{2} = \dots\dots\dots$  (in its simplest form)

•  $8\frac{8}{10}$

• 9

•  $9\frac{1}{8}$

•  $9\frac{1}{4}$

## 2 Find the result of each of the following:

2

a  $1\frac{9}{5} + 2\frac{11}{5} = \dots\dots\dots$

b  $4\frac{3}{5} - 2\frac{1}{3} = \dots\dots\dots$

## 1 Choose the correct answer:

3

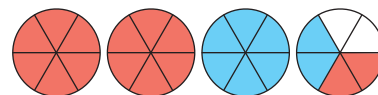
a  $2\frac{1}{4} = \dots\dots\dots$

•  $2\frac{4}{8}$

•  $2\frac{4}{16}$

•  $1\frac{1}{2}$

•  $1\frac{2}{8}$

b The following model represents  $\dots\dots\dots$ 

•  $3\frac{2}{6} + \frac{2}{6} = 3\frac{2}{6}$

•  $2\frac{1}{3} + 1\frac{1}{6} = 3\frac{2}{6}$

•  $2\frac{1}{6} + 1\frac{2}{6} = 3\frac{1}{2}$

•  $2\frac{2}{6} + 1\frac{2}{6} = 3\frac{2}{3}$

c If  $\frac{4}{20} = \frac{1}{x}$  then  $x = \dots\dots\dots$ 

• 2

• 3

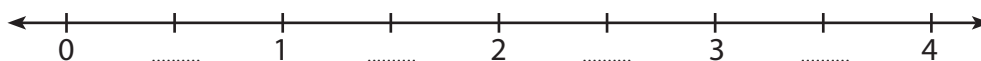
• 4

• 5

## 2 Answer the following:

2

a Fill in the missing fractions on the number line:



b Find the result by renaming the fractions using LCM:

•  $\frac{5}{8} - \frac{1}{2} = \dots\dots\dots$



## 1 Choose the correct answer:

a  $6 - \dots = 5\frac{1}{4}$

•  $\frac{1}{4}$

•  $\frac{2}{4}$

•  $\frac{3}{4}$

•  $1\frac{1}{4}$

b The common denominator for the two fractions  $2\frac{4}{5}$  and  $1\frac{3}{4}$  may be .....

• 15

• 16

• 20

• 9

c The estimation of  $2\frac{6}{7} + 4\frac{7}{8}$  using the benchmark fractions is .....

• 5

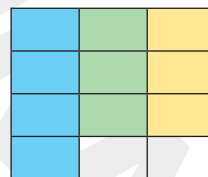
• 6

• 7

• 8

## 2 Answer the following:

a What is the fraction which represents the blue color?



.....

b What is the fraction which represents the blue and the green colors?

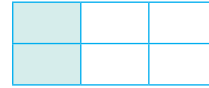
.....

## Model (1)

## 1 Choose the correct answer:

3

- a The fraction which represents the colored part in the



opposite model = .....

•  $\frac{2}{4}$

•  $\frac{4}{6}$

•  $\frac{1}{6}$

•  $\frac{2}{6}$

- b The simplest form of  $2\frac{4}{16}$  is .....

•  $1\frac{1}{4}$

•  $2\frac{2}{4}$

•  $\frac{1}{4}$

•  $2\frac{1}{4}$

- c  $7\frac{3}{4} + 1\frac{1}{2} = \dots\dots\dots$  (in its simplest form)

•  $8\frac{8}{10}$

• 9

•  $9\frac{1}{8}$

•  $9\frac{1}{4}$

## 2 Find the result of each of the following:

2

a  $1\frac{9}{5} + 2\frac{11}{5} = 3\frac{20}{5} = 3 + 4 = 7$

b  $4\frac{3}{5} - 2\frac{1}{3} = 4\frac{9}{15} - 2\frac{5}{15} = 2\frac{4}{15}$

5  
Marks

## Model (2)

1 Choose the correct answer:

3

a  $2\frac{1}{4} = \dots\dots\dots$

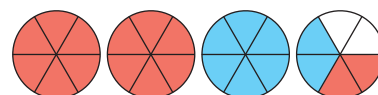
•  $2\frac{4}{8}$

•  $2\frac{4}{16}$

•  $1\frac{1}{2}$

•  $1\frac{2}{8}$

b The following model represents .....



•  $3\frac{2}{6} + \frac{2}{6} = 3\frac{2}{6}$

•  $2\frac{1}{3} + 1\frac{1}{6} = 3\frac{2}{6}$

•  $2\frac{1}{6} + 1\frac{2}{6} = 3\frac{1}{2}$

•  $2\frac{2}{6} + 1\frac{2}{6} = 3\frac{2}{3}$

c If  $\frac{4}{20} = \frac{1}{x}$  then  $x = \dots\dots\dots$

• 2

• 3

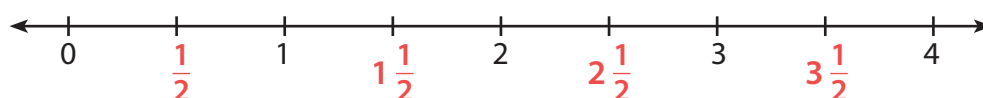
• 4

• 5

2 Answer the following:

2

a Fill in the missing fractions on the number line:



b Find the result by renaming the fractions using LCM:

•  $\frac{5}{8} - \frac{1}{2} = \frac{5}{8} - \frac{4}{8} = \frac{1}{8}$

## 1 Choose the correct answer:

a  $6 - \dots = 5\frac{1}{4}$

•  $\frac{1}{4}$

•  $\frac{2}{4}$

•  $\frac{3}{4}$

•  $1\frac{1}{4}$

b The common denominator for the two fractions  $2\frac{4}{5}$  and  $1\frac{3}{4}$  may be .....

• 15

• 16

• 20

• 9

c The estimation of  $2\frac{6}{7} + 4\frac{7}{8}$  using the benchmark fractions is .....

• 5

• 6

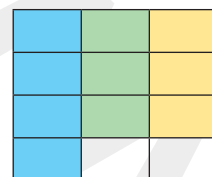
• 7

• 8

## 2 Answer the following:

a What is the fraction which represents the blue color?

$$\frac{4}{12} = \frac{1}{3}$$



b What is the fraction which represents the blue and the green colors?

$$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$



Lesson [11]: Finding Like denominators  
using L.C.M

يبدأ قبل الترم ما يخص ..... \*  
نبدأ الكتابة من النهاية نقالوا تفكر يعني ليه L.C.M

\* Find L.C.M to 12 and 9 ?

$$12 = 2 \times 2 \times 3$$

$$9 = 3 \times 3$$

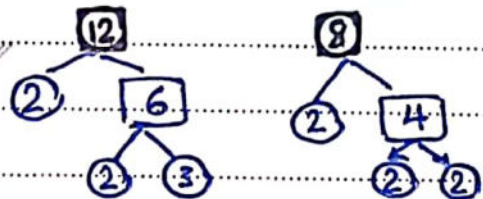


$$L.C.M = 2 \times 2 \times 3 \times 3 = 36$$

• Find L.C.M to 12 and 18 ?

$$12 = 2 \times 2 \times 3$$

$$18 = 2 \times 3 \times 3$$

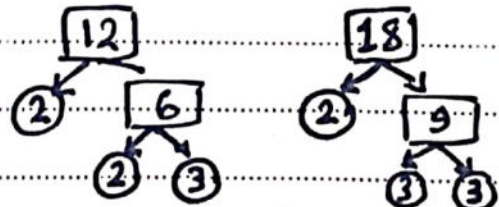


$$L.C.M = 2 \times 2 \times 3 \times 3 = 36$$

\* أنت بتفكرنا بالكلام ده ليه يا ماستر ؟  
اسمها إنت برضه اسمها حضرتك هقولك برضه يا سيدى قرة  
دة أول سؤال من أول Exercise من الخامس

1 Change each pair of unlike denominator into like fractions using L.C.M of unlike denominators.  
حول باستخدام L.C.M إلى Like denominators

a)  $\frac{5}{12}$  and  $\frac{7}{18}$



المطلوب نقول ال frac. دي

deno. لياقنى ال frac. ل

$$\frac{15}{36}$$

$12 \times 3$

$$\frac{14}{36}$$

$18 \times 2$



$$12 = 2 \times 2 \times 3$$

$$18 = 2 \times 3 \times 3$$

$$L.C.M = 2 \times 2 \times 3 \times 3 = 36$$



# Unit 7 L:1

Finding Like deno.  
by using L.C.M

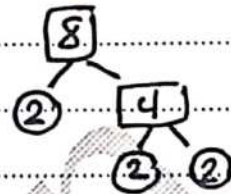
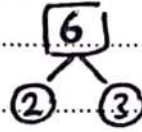
b)  $\frac{7}{6}$  and  $\frac{3}{8}$

لوما فقتش حاجة من لثال الى فات

- ركز في الى جاي دة اول حاجة نبص على الرقمين الى تحت

$$6 = 2 \times 3$$

$$8 = 2 \times 2 \times 2$$



$$L.C.M = 2 \times 2 \times 2 \times 3 = 24$$

- عاوزين نحول كل رقم من 6 و 8 الى 24 ازاى

$$24 = 4 \times 6$$

$$24 = 4 \times 6$$

$$24 = 3 \times 8$$

$$24 = 3 \times 8$$

- الخطوة الأخيرة

$$\frac{7 \times 4}{6 \times 4} = \frac{28}{24}$$

$$\frac{3 \times 3}{8 \times 3} = \frac{9}{24}$$

c)  $\frac{2}{3}$  and  $\frac{4}{7}$

$$\frac{2 \times 7}{3 \times 7} \text{ and } \frac{4 \times 3}{7 \times 3}$$

$$3 = 3 \times 1$$

$$7 = 1 \times 7$$

$$\frac{14}{21}$$

and

$$\frac{12}{21}$$

$$L.C.M = 3 \times 1 \times 7 = 21$$

d)  $\frac{7}{9}$  and  $\frac{11}{12}$

$$\frac{7 \times 4}{9 \times 4}$$

$$\frac{11 \times 3}{12 \times 3}$$

$$9 = 3 \times 3$$

$$12 = 3 \times 2 \times 2$$

$$L.C.M = 3 \times 3 \times 2 \times 2 = 36$$

$$\frac{28}{36}$$

and

$$\frac{33}{36}$$

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الجزء الثاني ليوم في ادرس الاول

## • Equivalent Fractions:

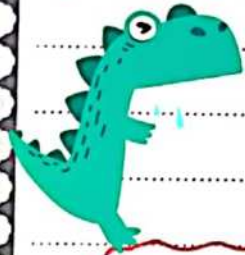
it's have the same value with different terms

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{10}{20} = \frac{100}{200} = \dots$$

## • To find equivalent fractions:

multiply or divide the two terms by the same number except 1

طبع اى نعمل  $\times$  و اى نعمل  $\div$  ؟



أبسطها لك لو الرقم كان صغير وكبر نعمل  $\times$   
ولو الرقم كان كبير وصغر نعمل  $\div$

يا سلام !! بص

A)  $\frac{1}{5} \xrightarrow{\times 2} \frac{2}{10} \xrightarrow{\times 3} \frac{3}{15} \xrightarrow{\times 5} \frac{5}{25}$

$\frac{1}{5} \xrightarrow{\times 3} \frac{3}{15}$

$\frac{1}{5} \xrightarrow{\times 5} \frac{5}{25}$

B)  $\frac{20}{24} \xrightarrow{\div 4} \frac{5}{6}$

$\frac{20}{24} \xrightarrow{\div 2} \frac{10}{12}$

\* ايه الدوشة دي يا ماستر السؤال بيحب ازاى ؟

• اهدى و صلي على النبي بص السؤال أهو ...

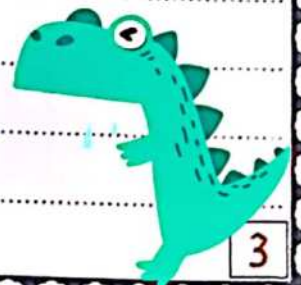
## • Find two equivalent fractions to:

1)  $\frac{2}{3}$

$\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$

$\frac{2 \times 5}{3 \times 5} = \frac{10}{15}$

$\frac{2}{3} = \frac{4}{6} = \frac{10}{15}$





②  $3\frac{5}{10}$  إيدو X رجله + راسه

$$3\frac{5}{10} = \frac{35}{10}$$

$$\frac{35 \times 2}{10 \times 2} = \frac{70}{20}$$

$$\frac{35 \div 5}{10 \div 5} = \frac{7}{2}$$

$$\therefore 3\frac{5}{10} = \frac{70}{20} = \frac{7}{2}$$



③  $\frac{30}{60}$

$$\frac{30 \div 10}{60 \div 10} = \frac{3}{6}$$

$$\frac{30 \div 5}{60 \div 5} = \frac{6}{12}$$

$$\frac{30}{60} = \frac{3}{6} = \frac{6}{12}$$

مكسوفة كلبوطة

بنزاجك يا معلم العدد اللي بتعلمه X أو ÷  
الشرط اللي تعلمه X أو ÷ فهو بيقى هو نفس اللي تحت



• Put The following fractions in the Simplest Form: ضع في أبسط صورة

①  $\frac{8 \div 8}{40 \div 8} = \frac{1}{5}$

②  $\frac{15 \div 5}{30 \div 5} = \frac{3 \div 3}{6 \div 3} = \frac{1}{2}$

③  $2\frac{8}{24}$   
↓  
 $2\frac{8 \div 8}{24 \div 8}$   
↓  
 $2\frac{1}{3}$



④  $3\frac{6}{18}$   
↓  
 $3\frac{6 \div 6}{18 \div 6}$   
↓  
 $3\frac{1}{3}$

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\* Send to Prof \*

(1) Complete the following:

a)  $\frac{3}{5} = \frac{9}{\dots}$

b)  $\frac{7}{21} = \frac{1}{\dots}$

c)  $\frac{5}{8} = \frac{\dots}{48}$

d)  $\frac{2}{7} = \frac{6}{\dots}$

e)  $\frac{4}{12} = \frac{\dots}{36}$

f)  $\frac{3}{10} = \frac{\dots}{50}$

(2) put the following fractions in the Simplest form:

a)  $\frac{4}{12}$

b)  $\frac{50}{90}$

c)  $\frac{8}{16}$

d)  $\frac{24}{36}$

e)  $3\frac{6}{18}$

f)  $\frac{14}{35}$

(3) Find two equivalent Fractions to each fraction

a)  $\frac{21}{27}$

b)  $\frac{4}{5}$

c)  $\frac{36}{48}$

d)  $3\frac{3}{6}$

e)  $\frac{35}{70}$

f)  $\frac{1}{2}$

(4) Find the Smallest Like denominators for the following fractions using L.C.M:

a)  $\frac{5}{12}, \frac{3}{16}$


b)  $\frac{4}{9}, \frac{2}{3}$

c)  $\frac{5}{6}, \frac{3}{8}$

d)  $\frac{3}{5}, \frac{2}{15}$

e)  $\frac{2}{6}, \frac{4}{5}$

f)  $\frac{3}{4}, \frac{5}{12}$


 سلامو عليكم



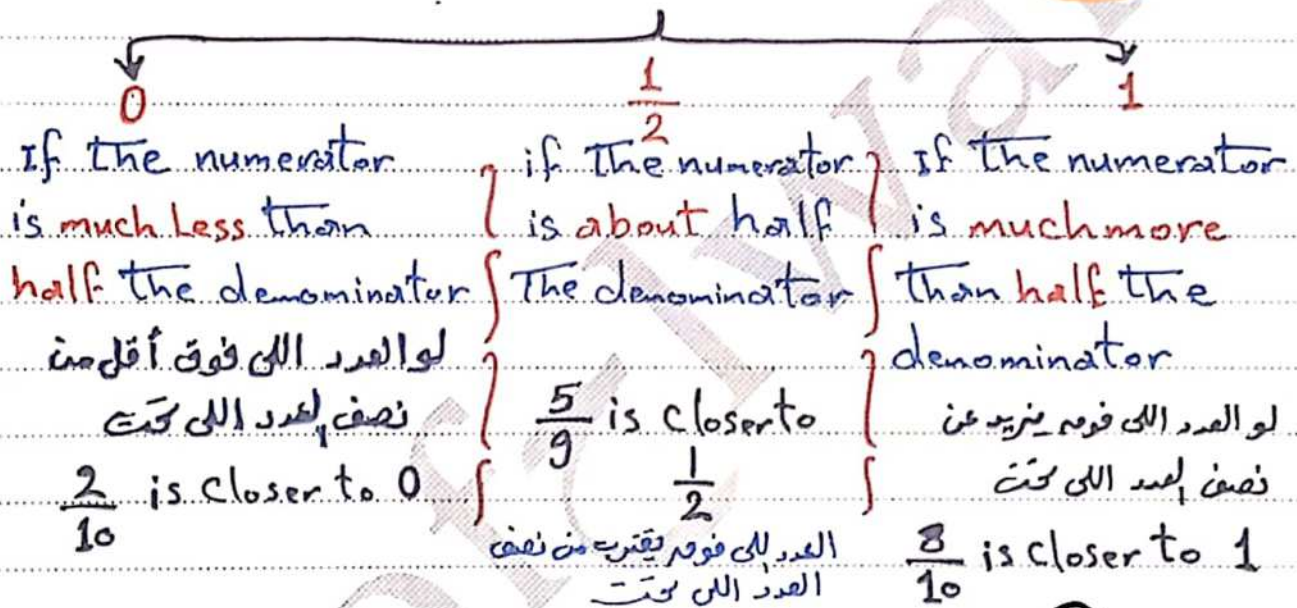
## L2 - Estimating Sums and Differences of Fractions

\* First: Adding and Subtracting using Benchmark

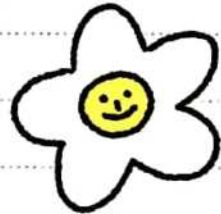
$[0, \frac{1}{2}, 1]$



Fraction is Close to:



① Complete:



$\frac{1}{6}$  is closer to ...

$\frac{9}{10}$  is closer to ...

$\frac{5}{8}$  is closer to ...

② Estimate using benchmarks  $0, \frac{1}{2}, 1$

①  $\frac{1}{7} + \frac{8}{9} = 0 + 1 = 1$

②  $\frac{1}{4} + \frac{2}{3} = 0 + 1 = 1$



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$$\textcircled{3} \quad \frac{4}{9} + \frac{7}{8} = \frac{1}{2} + 1 = 1\frac{1}{2}$$

$$\textcircled{4} \quad \frac{5}{6} - \frac{7}{12} = 1 - \frac{1}{2} = \frac{1}{2}$$

$$\textcircled{5} \quad \frac{3}{4} - \frac{2}{3} = 1 - 1 = 0$$



3] صرح بأنة للسؤال دة عشان هيعمل قلق  
Indicate whether the given estimate  
is an overestimate or underestimate?

\* وضع ما إذا كان التقدير المحد هو تقدير بقيمة أكبر أم تقدير  
بقيمة أقل ؟

a.  $\frac{9}{10} + \frac{2}{5}$  is about  $1\frac{1}{2}$  overestimate  
ليه بأه إنه شاذ (الو) وليه مش Underestimate

Estimation نوع تقدير	التقدير	القيمة الحقيقية	Fraction
over تقدير بقيمة أكبر	1	أقل من 1	$\frac{9}{10}$
over تقدير بقيمة أكبر	$\frac{1}{2}$	أقل من $\frac{1}{2}$	$\frac{2}{5}$

b.  $\frac{3}{5} + \frac{6}{10}$  is about 1 Underestimate  
 $\frac{1}{2}$  أكبر من  $\frac{1}{2}$  أكبر من  $\frac{1}{2}$

c.  $\frac{1}{3} + \frac{5}{9}$  is about  $\frac{1}{2}$  Underestimate  
0 أكبر من  $\frac{1}{2}$  أكبر من  $\frac{1}{2}$

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d.  $\frac{2}{5} + \frac{3}{7}$  is about 1 Overestimate  
 $\frac{1}{2}$  أقل من  $\frac{1}{2}$  أقل من  $\frac{1}{2}$



## Unit 7

## Lessons 2, 3

e.  $\frac{9}{10} + \frac{7}{9}$  is about 2  
 أقل من 1      أقل من 1

overestimate

f.  $\frac{7}{12} + \frac{12}{11}$  is about  $1\frac{1}{2}$   
 أكبر من  $\frac{1}{2}$       أكبر من 1

underestimate

Second: Using models to add and subtract fractions with unlike denominators

Fraction wall

دقة قس و لزوم كبر و صانع منه شى جاي

(4) Kamel Says that  $\frac{11}{12} - \frac{7}{10}$  will be about  $\frac{1}{2}$

Fady Says  $\frac{11}{12} - \frac{7}{10}$  will be close to 0

Do you agree with Kamel or Fady? why?

Sol By using benchmark

$$\frac{11}{12} - \frac{7}{10} = 1 - \frac{1}{2} = \frac{1}{2}$$

I agree with Kamel

تعالوا نتعلم طريقة جديدة لل

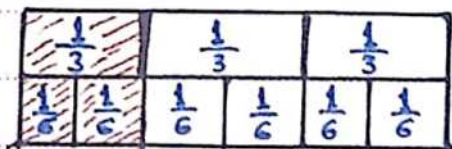
\* Adding and Subtracting Unlike denominators  
 Fractions using models

(1)  $\frac{1}{3} + \frac{5}{6} =$

بنبي ال equivalent بنوع واحد

علشان نخلص ال Like denominators

$$\frac{2}{6} + \frac{5}{6} = \frac{7}{6}$$



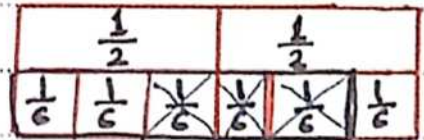


# Unit 7

## Lessons 2, 3

$$\textcircled{2} \quad \frac{5}{6} - \frac{1}{2} = \dots$$

$$\frac{5}{6} - \frac{3}{6} = \frac{2}{6} \div 2 = \frac{1}{3}$$



### Homework

① Estimate using benchmarks 0,  $\frac{1}{2}$  and 1

$$\textcircled{1} \quad \frac{5}{6} + \frac{3}{7}$$

$$\textcircled{2} \quad \frac{3}{8} + \frac{4}{5}$$

$$\textcircled{3} \quad \frac{9}{10} - \frac{7}{8}$$

$$\textcircled{4} \quad \frac{8}{10} + \frac{2}{5}$$

$$\textcircled{5} \quad \frac{4}{5} + \frac{2}{5}$$

$$\textcircled{6} \quad \frac{3}{7} + \frac{4}{10}$$

$$\textcircled{7} \quad \frac{2}{3} + \frac{6}{5}$$

$$\textcircled{8} \quad \frac{3}{4} - \frac{1}{3}$$



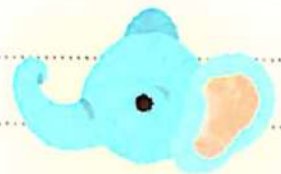
② Use your fraction wall to evaluate

$$\textcircled{1} \quad \frac{1}{3} + \frac{5}{6}$$

$$\textcircled{3} \quad \frac{4}{5} - \frac{1}{10}$$

$$\textcircled{2} \quad \frac{5}{8} + \frac{1}{4}$$

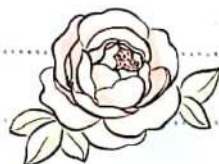
$$\textcircled{4} \quad \frac{1}{2} - \frac{2}{6}$$



③  $\frac{7}{8} + \frac{5}{9}$  is about  $\frac{1}{2}$  overestimate or underestimate

④  $\frac{8}{9} + \frac{5}{11}$  is about  $1\frac{1}{2}$  overestimate or underestimate

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# Unit 7

## Lessons 4-5

### Lesson 4 Adding and Subtracting

Fractions where denominator of one of them is a multiple of the other:

الدرس دة بيقولنا لو العددين الى تحت واحد منهم صغير

والثاني كبير والكبير في ال Table يتابع الصغير

تخليهم ال C زي الكبير (يعني تحول الصغير للكبير)

$$\frac{5}{8} + \frac{1 \times 2}{4 \times 2} = \frac{5}{8} + \frac{2}{8} = \frac{7}{8}$$

$$\frac{5}{6} - \frac{2 \times 2}{3 \times 2} = \frac{5}{6} - \frac{4}{6} = \frac{1}{6}$$

$$\frac{2 \times 3}{7 \times 3} + \frac{19}{21} = \frac{6}{21} + \frac{19}{21} = \frac{25}{21}$$

$$\frac{7}{10} - \frac{1 \times 2}{5 \times 2} = \frac{7}{10} - \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$$



### Lesson 5

Adding and Subtracting unlike denominator fractions

هنتعلم في الدرس دة ازاى نعدل (+) و (-) لل

$$\textcircled{1} \quad \frac{3 \times 3}{8 \times 3} + \frac{1 \times 8}{3 \times 8}$$

الخطوة الاولى نجيب L.C.M

للعددين الى تحت

8 و 3

$$= \frac{9}{24} + \frac{8}{24} = \frac{17}{24}$$

$$L.C.M = 8 \times 3 = 24$$

الخطوة 2 تحول ال Fractions الى

Like denominators

الخطوة 3 نعدل (+)

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$$\textcircled{2} \quad \frac{7 \times 2}{8 \times 2} - \frac{1 \times 3}{6 \times 3}$$

$$9 = 3 \times 3$$

$$6 = 3 \times 2$$

$$\frac{14}{18} - \frac{3}{18}$$

$$\text{L.C.M} = 3 \times 3 \times 2 = 18$$

$$= \frac{11}{18}$$

$$\textcircled{3} \quad \frac{2 \times 8}{5 \times 8} + \frac{3 \times 5}{8 \times 5} + 1$$

$$\text{L.C.M} = 5 \times 8 = 40$$

$$\frac{16}{40} + \frac{15}{40} + \frac{40}{40} = \frac{71}{40} = 1 \frac{31}{40}$$

$$\textcircled{4} \quad 1 - \frac{1}{4} - \frac{1}{5}$$

$$\text{L.C.M} = 20$$

$$\frac{20}{20} - \frac{5}{20} - \frac{4}{20} = \frac{11}{20}$$



$\textcircled{5}$  Who is Correct? Soliman, Seif and Samar

$$\frac{1}{12} + \frac{2}{3}$$

Soliman's Answer  $\frac{9}{12}$

Seif's Answer  $\frac{3}{15}$

Samar's Answer  $\frac{3}{4}$

$\textcircled{1}$  IS Soliman Correct? why?

Yes, He rewrote the fractions with like denominators using L.C.M

$\textcircled{2}$  IS Seif Correct? why?

No, He added numerators and denominators.

$\textcircled{3}$  IS Samar Correct? why?

Yes, She Simplified the answer.






# Solving Story problems with Fractions

الفوازير

- (1) wael Spends  $\frac{4}{7}$  of his money on Candy and  $\frac{1}{5}$  of his money on toys and Saves the Left money? what fraction of money does wael Save?

Answer

wael spent =  $\frac{4}{7} + \frac{1}{5}$  L.C.M = 35

  $= \frac{20}{35} + \frac{7}{35} = \frac{27}{35}$

The Left =  $1 - \frac{27}{35} = \frac{35}{35} - \frac{27}{35} = \frac{8}{35}$

- (2) Nancy read  $\frac{1}{3}$  of a book in the morning and  $\frac{2}{5}$  of the same book in the evening, then 32 pages of the book are left without reading. what is the number of pages of the book.

Answer → what nancy read =  $\frac{1}{3} + \frac{2}{5}$

$= \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$

Fraction of

Left pages =  $1 - \frac{11}{15} = \frac{15}{15} - \frac{11}{15} = \frac{4}{15}$

profhelwan

$\frac{4}{15} \xrightarrow{\times 8} \frac{32}{15}$



Number of pages of The book =  $15 \times 8 = 120$  p.



(3) In The pond,  $\frac{1}{3}$  of the Lilies are white and

$\frac{1}{4}$  of the Lilies are pink. The remaining Lilies

are Blue. what Fraction of the lilies are Blue?

Solution

$$\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$

$$\text{Number of Blue} = 1 - \frac{7}{12} = \frac{12}{12} - \frac{7}{12} = \frac{5}{12}$$

(4) Rania uses  $\frac{3}{4}$  of her monthly Salary to pay for her food, rent, utilities and transportation

after these expenses, She left 1,250 L.E

what Rania's monthly Salary?

\* ماهو مرتب المواطنة المطحونة رانيا هاشم ؟

Solution

She Spent =  $\frac{3}{4}$  of Salary

The Left =  $1 - \frac{3}{4} = \frac{4}{4} - \frac{3}{4} = \frac{1}{4}$  of Sal.

$$\frac{1}{4} \xrightarrow{\times 1250} 1250$$

profhelwan

The Salary =  $4 \times 1250 = 5000$  pounds



والله ولا هيكنوا لولا ستر ربنا



# Unit 8

## Lessons 1-2-3

### Lesson 1:

- Adding and Subtracting Mixed numbers with like denominators.

خذنا زمامنا سنة ١٦

proper fraction  
 $\frac{3}{5}$   
الصغير فوه

improper fraction  
 $\frac{5}{3}$   
الكبير فوه

mixed number  
 $1\frac{2}{3}$   
واضح

\* تعال نتعلم حركة جديدة

$$3\frac{2}{5} = 2\frac{7}{5}$$

ايه الى حصل؟

عباس اتكسر !!

عباس دة هو ال whole يعني ال 3 اتكسر يعني

نقصنا منه 1 و ال  $1 = \frac{5}{5}$  طب اشمن 5

علشان مكتوب تحت 5 و اخذنا  $\frac{5}{5}$  دي زودناها

على ال جنبها  $\frac{2}{5}$  اصبحت  $\frac{7}{5}$



$$3\frac{2}{5} = 2\frac{7}{5}$$

-1  
+  $\frac{5}{5}$



طب وليه قلبت الدماغ دي يا عباس ١٩

استعجلت في السؤال دة بس هرد عليك بص

لو طابت منك نجيب دي ←

$$5\frac{1}{8} - 2\frac{3}{8}$$

$$(5-2) + (\frac{1}{8} - \frac{3}{8})$$

دي هتفتح  
بكن دي لا فتح  
هتفتح

طب هنعمل ايه

اقلب الصفة



$$5\frac{1}{8} - 2\frac{3}{8} = 4\frac{9}{8} - 2\frac{3}{8}$$

$$= (4-2) + (\frac{9}{8} - \frac{3}{8})$$

$$= 2 + \frac{6}{8}$$

$$= 2\frac{6}{8}$$

يارب تكون وصلت

واحدة كتاب

$$11\frac{1}{6} - 5\frac{5}{6}$$

يعود على ال Fractions الأول

$$11\frac{1}{6} - 5\frac{5}{6} = 10\frac{7}{6} - 5\frac{5}{6}$$

$$= (10-5) + (\frac{7}{6} - \frac{5}{6})$$

$$= 5 + \frac{2}{6} = 5\frac{2}{6} = 5\frac{1}{3}$$



خلاصة الدرس

$$2\frac{3}{5} + 3\frac{1}{5}$$

سواء (+) أو (-)  
المسألة دي تتحل بطريقتين

الأولى

improper

$$2\frac{3}{5} + 3\frac{1}{5}$$

(أيدو x رجله + رأسه)

$$\frac{13}{5} + \frac{16}{5} = \frac{29}{5} = 5\frac{4}{5}$$

الثانية

Decomposing

$$2\frac{3}{5} + 3\frac{1}{5}$$

$$(2+3) + (\frac{3}{5} + \frac{1}{5})$$

$$5 + \frac{4}{5} = 5\frac{4}{5}$$



profhelwan

15



$$4\frac{2}{3} - 1\frac{1}{3}$$

$$\frac{14}{3} - \frac{4}{3} = \frac{10}{3}$$

$$= \underline{3\frac{1}{3}}$$

$$(4-1) + (\frac{2}{3} - \frac{1}{3})$$

$$3 + \frac{1}{3} = \underline{3\frac{1}{3}}$$

بروف حلوان

\* كمان واحدة من بتوع عباس

$$5\frac{2}{7} - 3\frac{5}{7}$$

$$\frac{37}{7} - \frac{26}{7}$$

$$= \frac{11}{7} = \underline{1\frac{4}{7}}$$

$$4\frac{9}{7} - 3\frac{5}{7}$$

$$= (4-3) + (\frac{9}{7} - \frac{5}{7})$$

$$= 1 + \frac{4}{7} = \underline{1\frac{4}{7}}$$

طبعاً حتمل بالطريقة  
اللى تدجبلون

\* Solve equations:

لو الكوف فى الاول مكتوب  
نعمل عكس المطلوب

$$① A + 1\frac{3}{4} = 7\frac{1}{4}$$

$$A = 7\frac{1}{4} - 1\frac{3}{4} = 6\frac{5}{4} - 1\frac{3}{4}$$

$$= 5\frac{2}{4} = \underline{5\frac{1}{2}}$$

$$② B - \frac{7}{8} = \frac{6}{8}$$

$$B = \frac{6}{8} + \frac{7}{8} = \frac{13}{8} = \underline{1\frac{5}{8}}$$

بروف حلوان



$$\textcircled{3} \quad 2\frac{5}{8} - C = 1\frac{1}{8}$$

$$C = 2\frac{5}{8} - 1\frac{1}{8} = 1\frac{4}{8} = 1\frac{1}{2}$$

لو الحرف في النص  
(-) منه غير ما ينقص

$$\textcircled{4} \quad 4 - p = 1\frac{1}{5}$$

$$p = 4 - 1\frac{1}{5} = 3\frac{5}{5} - 1\frac{1}{5} = 2\frac{4}{5}$$

**Lesson 2**: Finding Like denominators  
use L.C.M

**1** Rewrite The given two mixed numbers with Like deno. in two different ways

خليهم Like بطريقتين مختلفتين

$$3\frac{1}{4} \text{ and } 1\frac{6}{30}$$

الطريقة الأولى: نجيب ال L.C.M

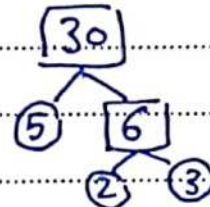
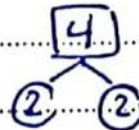
$$4 \times 15 = 60$$

$$30 \times 2 = 60$$

للي 4, 30

$$3\frac{15}{60}$$

$$1\frac{12}{60}$$



$$4 = 2 \times 2$$

$$30 = 2 \times 3 \times 5$$



$$\text{L.C.M} = 2 \times 2 \times 3 \times 5 = \boxed{60}$$

الطريقة الثانية: نعمل Simplify قبل ما نجيب L.C.M

$$3\frac{1}{4}, 1\frac{6}{30} = 1\frac{1}{5}$$

L.C.M to 4 and 5 is  $\boxed{20}$

$$3\frac{5}{20}, 1\frac{4}{20}$$

أعتقد دي أسهل

**17**

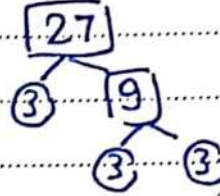
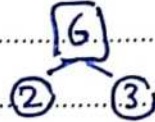


## Unit: 8

## Lesson: 2

واحدة كمان  $10 \frac{5}{6}$  and  $5 \frac{15}{27}$

First way L.C.M for 6 and 27



$$6 = 2 \times 3$$

$$27 = 3 \times 3 \times 3$$

$$\text{L.C.M} = 2 \times 3 \times 3 \times 3 = \boxed{54}$$

$$6 \times 9 = 54$$

$$27 \times 2 = 54$$

$$10 \frac{5 \times 9}{6 \times 9} = \boxed{10 \frac{45}{54}} \quad \leftarrow \quad 5 \frac{15 \times 2}{27 \times 2} = \boxed{5 \frac{30}{54}}$$

Second way Simplify

$$10 \frac{5}{6} \quad \leftarrow \quad 5 \frac{15 \div 3}{27 \div 3} = 5 \frac{5}{9}$$

بسط

L.C.M for 6 and 9

$$6 = 2 \times 3$$

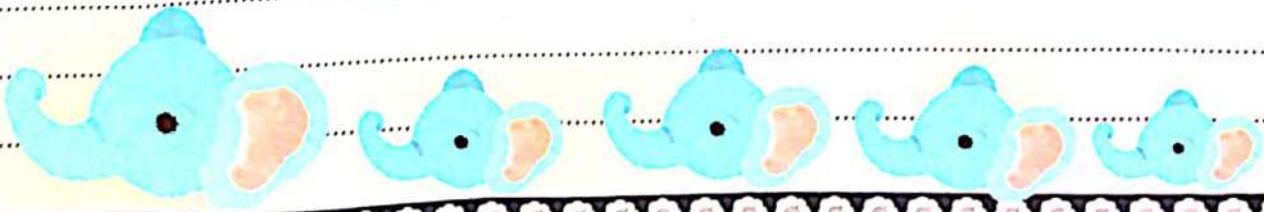
$$9 = 3 \times 3$$

$$\text{L.C.M} = 2 \times 3 \times 3 = \boxed{18}$$

$$6 \times 3 = 18$$

$$9 \times 2 = 18$$

$$10 \frac{5}{6} = \boxed{10 \frac{15}{18}} \quad \leftarrow \quad 5 \frac{5}{9} = \boxed{5 \frac{10}{18}}$$





## Lesson 3

## Estimation

↑ with Mixed Numbers

(1) Use number sense and estimation to Complete:

a.  $7\frac{a}{8}$  is little greater than  $7\frac{1}{2}$   
Estimate for

a:

هو طالب مني أخط الـ  $a$  بكام علشان يبقى

العدد أكبر من  $7\frac{1}{2}$  طب نعمل ليه .....  
نص تحت على الـ 8 ونشوف نصها كام 4 يبقى  $a$  دي  
لازم تبقى أكبر من 4 يعني

الاجابتين صح  
→

$a = 5 \text{ or } 6$

b.  $3\frac{b}{9}$  is almost 4

هو طالب أن العدد 4 يزيد ويقرب من الـ 4

يبقى نعمل ليه .....  
نص تحت على الـ 9 ونشوف نصها كام  $4\frac{1}{2}$  لازم يبقى  
الـ  $b$  أكبر من 4 بكتشيس يعني

الاجابتين صح  
→

$b = 8 \text{ or } 7$

c.  $10\frac{3}{c}$  is slightly less than  $10\frac{1}{2}$

هو طالب أن العدد يقل عنه  $10\frac{1}{2}$

فلازم المرة دي نص فوق على الـ 3

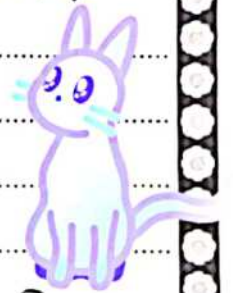
ولا لازم الـ 3 تبقى أقل من  $\frac{1}{2}$  العدد اللي تحت

طب نعمل ليه 19 نضرب  $6 = 3 \times 2$

و يبقى الـ  $c$  أكبر من 6

$c = 7$

حاسبين  
انها رافعة





## ② Using estimation to add and Subtract

a)  $6\frac{3}{4} - 2\frac{1}{5}$

$$\frac{3}{4} \rightarrow 1$$

$$6\frac{3}{4} \rightarrow 7$$

$$\frac{1}{5} \rightarrow 0$$

$$2\frac{1}{5} \rightarrow 2$$

$$6\frac{3}{4} - 2\frac{1}{5} \text{ estimate } 7 - 2 = 5$$

b)  $4\frac{2}{3} + 3\frac{5}{6}$

$$\frac{2}{3} \rightarrow 1$$

$$4\frac{2}{3} \rightarrow 5$$

$$\frac{5}{6} \rightarrow 1$$

$$3\frac{5}{6} \rightarrow 4$$

$$4\frac{2}{3} + 3\frac{5}{6} \text{ estimate } 5 + 4 = 9$$

c)  $2\frac{1}{5} + 3\frac{10}{21} = 2 + 3\frac{1}{2} = 5\frac{1}{2}$

$$\frac{10}{21} \Rightarrow \frac{1}{2}$$

علشان 21 نصف 10  
وال 10 قريبة من 12

d)  $4\frac{3}{5} - 1\frac{7}{12} = 4\frac{1}{2} - 1\frac{1}{2} = 3$

e)  $3\frac{21}{24} - 2\frac{1}{3} = 4 - 2\frac{1}{2} = 1\frac{1}{2}$

f)  $9\frac{6}{11} + 2\frac{3}{100} = 9\frac{1}{2} + 2 = 11\frac{1}{2}$

g)  $7\frac{5}{14} - 3\frac{19}{34} = 7\frac{1}{2} - 3\frac{1}{2} = 4$



# Unit 8

## Lessons 4, 5, 6

### Lesson 4: Using Models to add and Subtract Mixed numbers

يعني إيه Mixed numbers ؟ الكلمة دي أنا سمعتها فين قبل كدة ؟  
آه لما أخذنا أنوع ال Fractions ثلاثة  
① proper  $\frac{3}{5}$  ② improper  $\frac{5}{3}$  ③ Mixed  $1\frac{2}{3}$   
أيوواا هو دة

✳ في الرسم دة هتفهم ازاي نعمل + و -

ولمعة الثانية بال  
Numberline

مرة بال  
Area Models

### (A) Adding and Subtracting Mixed numbers Using Models:

ركز مع البروف في الألوان والسؤال هو ---  
Use an area model to find:

$$a. 1\frac{4}{5} + 2\frac{1}{2}$$

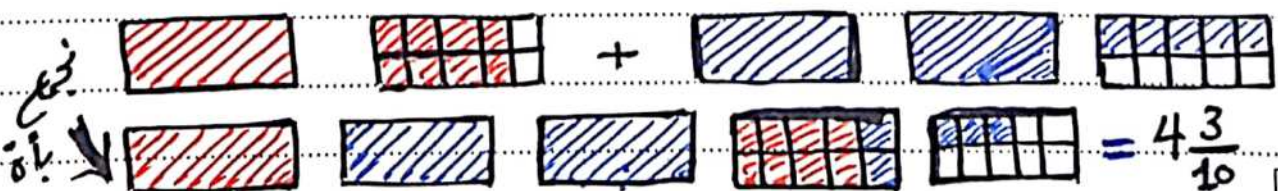
الخطوة الأولى هتقول للرسم



أخذ بالك ال Fraction مرة يتقسم بالطول مرة  
يتقسم بالعرض

الخطوة الثانية : بنص على ال Denominators  
مكتوب تحتها 5 هيتقسم لجزيئين والى مكتوب  
تحتها 2 هيتقسم لـ 5 أجزاء يعني بالعكس

والعكس  
التاكس كدهون





رما لك لفت وعملت error طبع خذ دعي

b.  $3\frac{3}{8} - 2\frac{1}{4}$

تعللي

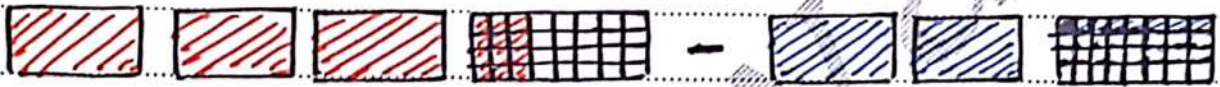
① الرسم Modeling

الكتاب ببسبب النذرة مش مش الاسم كزيا بطل



② التقسيم Dividing

الى تحت 8 يتقسم 4 أخيراً والى تحت 4 يتقسم 8 أفراد



③ الطرح Subtracting

$3\frac{3}{8} - 2\frac{1}{4} = 1\frac{4}{32} = 1\frac{1}{8}$

حذفنا 2 و 12 صديق صغير حذفنا منهم 8

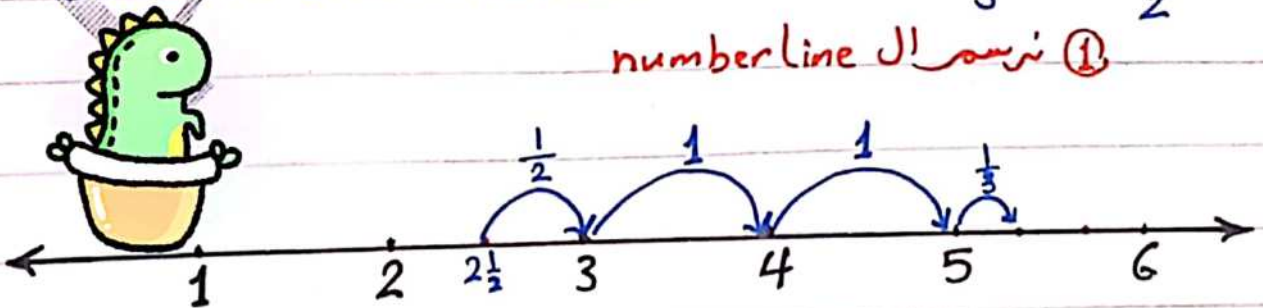
B) Adding and Subtracting using Numberline  
يا خرابي يا نا يا أما هو أنا ناقص يا أخويا

الكيفية الكتاب شرح ال - بس

يبقى خلاص اعمل نفسك ميت وافهم ال - بس

Use numberline to Subtract  $5\frac{1}{3} - 2\frac{1}{2}$

① نرسم ال numberline



② نبدأ من  $2\frac{1}{2}$  العدد الأكبر في البداية ونطرح رقم رقم كد ما نوصل  $5\frac{1}{3}$

③ نعمل (+) للنظرات (شغل أراب)

$\frac{1}{2} + 1 + 1 + \frac{1}{3}$



$$\frac{3}{6} + 1 + 1 + \frac{2}{6} = 2\frac{5}{6}$$

(Lesson 5) Adding and Subtracting Mixed numbers with unlike denominators.

واضح كدة مع العنوان الطويلة هتعمل ال (+) وال (-) لما يكون ال denominators مختلفة و هتعمل الكلا مودة بطريقتين

Using  
Improper Fractions

$$2\frac{1}{2} + 1\frac{1}{3}$$

$$= \frac{5}{2} + \frac{4}{3}$$

$$= \frac{15}{6} + \frac{8}{6}$$

$$= \frac{23}{6} = 3\frac{5}{6}$$

Using  
Decomposing mixed numbers

$$2\frac{1}{2} + 1\frac{1}{3}$$

$$(2+1) + (\frac{1}{2} + \frac{1}{3})$$

$$3 + (\frac{3}{6} + \frac{2}{6})$$

$$3 + \frac{5}{6} = 3\frac{5}{6}$$

$$5\frac{1}{2} - 2\frac{3}{5}$$

$$\frac{11}{2} - \frac{13}{5}$$

$$\frac{55}{10} - \frac{26}{10} = \frac{29}{10}$$

$$= 2\frac{9}{10}$$

$$5\frac{1}{2} - 2\frac{3}{5}$$

$$(5-2) + (\frac{1}{2} - \frac{3}{5})$$

دى مش هتنتفع دى هتنتفع  
علشان ال  $\frac{1}{2}$  أصغر من  $\frac{3}{5}$   
طب نفعل ايه ؟

نكسر الصغبر ازاي ؟ كدهون

$$4\frac{3}{2} - 2\frac{3}{5}$$

$$(4-2) + (\frac{3}{2} - \frac{3}{5})$$

$$2 + (\frac{15}{10} - \frac{6}{10})$$

$$2 + \frac{9}{10} = 2\frac{9}{10}$$

تعال فتدرب على دى تايذج ←



$$8\frac{1}{3} - 2\frac{4}{5}$$

النصيحة من عمو أحمد  
قبل ما تمل مسألة الـ (ـ) بنص ٥٥ على

ال Fractions الاول

هتلاحظ أن الـ  $\frac{1}{3}$  أصغر من  $\frac{4}{5}$  يبقى نستلف إزاي؟

كده هون

بناخذ من الـ 8 دي 1 تبقى 7 فيل مشكلة دي؟  
سامعك بتقول لا طيب الـ 1 اللي استلفناه دة قبل ما نزوده  
على الـ Fraction هنكتبه على صورة  $1 = \frac{3}{3}$  علشان ينفع  
نزوده على الـ  $\frac{1}{3}$  فيبقى

$$\frac{1}{3} + \frac{3}{3} = \frac{4}{3}$$

$$\begin{aligned} 8\frac{1}{3} - 2\frac{4}{5} &= 7\frac{4}{3} - 2\frac{4}{5} \\ &= (7 - 2) + \left(\frac{4}{3} - \frac{4}{5}\right) \\ &= 5 + \left(\frac{20}{15} - \frac{12}{15}\right) \\ &= 5 + \frac{8}{15} = 5\frac{8}{15} \end{aligned}$$

## Lesson 6



Adding and Subtracting mixed numbers  
by adjusting the mixed numbers

في الدرس دة بنكمل أول Fraction

في مسألة نوصله لـ whole one يعني

نكمل العدد اللي فوقه كد ما يوصل لـ ١

واللا ما فاهم حاجة؟ حاسن بيبك بص يا سيدى

$$1\frac{3}{7} + 3\frac{2}{7} =$$

بص أول Fraction اللي هو  $\frac{3}{7}$  نكملة إزاي محتاج  $\frac{4}{7}$

مرة هنزود  $\frac{4}{7}$  ومرة ننقص  $\frac{4}{7}$

آه ويا صحتف كده هون

$$\left(1\frac{3}{7} + \frac{4}{7}\right) + \left(3\frac{2}{7} - \frac{4}{7}\right)$$





نفس الخطوة الى فاتت

$$(1\frac{3}{7} + \frac{4}{7}) + (3\frac{2}{7} - \frac{4}{7})$$

plus (+)

$$1\frac{7}{7} + (2\frac{9}{7} - \frac{4}{7})$$

زود  
نقص

$$2 + 2\frac{5}{7} = 4\frac{5}{7}$$

كمان واحدة ... عشان خاطري بلاش

$$5\frac{2}{7} - 2\frac{4}{7}$$

Minus (-)

$$(5\frac{2}{7} + \frac{6}{7}) - (2\frac{4}{7} + \frac{6}{7})$$

زود  
زود

$$5\frac{8}{7} - 2\frac{7}{7} = 5\frac{8}{7} - 3$$

$$= 2\frac{8}{7} = 3\frac{1}{7}$$

و بعدين يعني كل دي طرحة و آخرتيل معاكم يا مدرسين !

يا ابني ركن على طريقة واحدة واتدر على كويت

واتي يا ماما

وانت يا بابا من حقا شرعا وقانونا وعلى لذاعت الأربعة

إنك تقطعي الورقة دي وترميل من البكونة

بشرط تكون فهدا الورقة الى قبل

سلامو تليكو





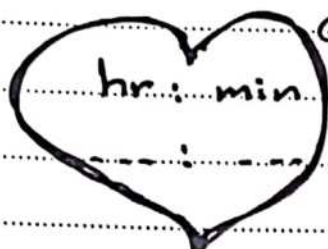
Lesson: 7

Story Problems with Mixed numbers

Lesson: 8

More Story problems with mixed numbers.

\* كى الساعة كام دلو قى ؟ وانت بتذاكر الدرس ده  
= اكتب الساعة هنا وصور الورقة وابعتلى واتس



011 277 338 42

علشان أعرف إنك شاظر وبتذاكر  
كلنا عارفين أن

One year = 12 months

One day = 24 hours

One Hour = 60 minutes

One Minute = 60 seconds

$\frac{1}{2}$  year = 6 months

$\frac{1}{4}$  year = 3 months

$\frac{3}{4}$  year = 9 months

$\frac{1}{3}$  year = 4 months

$\frac{1}{2}$  day = 12 hours

$\frac{1}{4}$  day = 6 hours

\* Complete

①  $7\frac{1}{10}$  minutes = 7 mins and 6 sec.

$$\frac{1}{10} = \frac{6}{60}$$

②  $4\frac{3}{4}$  hours = 4 hrs and 45 mins

$$\frac{3}{4} = \frac{45}{60}$$

③  $6\frac{1}{2}$  year = 6 years and 6 months

$$\frac{1}{6} = \frac{10}{60}$$

④  $2\frac{1}{6}$  hours = [120 + 10] mins = 130 mins

26



⑤ 80 minutes = — hour

$$\frac{80}{60} = 1 \frac{20}{60} = 1 \frac{1}{3}$$

### Lesson 8 : More Story Problems

تین شوکی

- (1) Habiba is planting three plume thistle plants it took her  $\frac{5}{6}$  minute to plant the first one. The second plant took  $\frac{1}{12}$  min **longer** to plant than the first. The third plant took  $\frac{1}{10}$  **less than** time to plant the second one. How long did it take to plant the third plume thistle?

$$\text{Time of second} = \frac{5}{6} + \frac{1}{12} = \frac{10}{12} + \frac{1}{12} = \frac{11}{12} \text{ min}$$

$$\text{Time of third} = \frac{11}{12} - \frac{1}{10} = \frac{55}{60} - \frac{6}{60} = \frac{49}{60} \text{ mins}$$

$$= 49 \text{ seconds}$$

- (2) Mona walked  $3\frac{3}{4}$  Km on Monday,  $4\frac{1}{3}$  Km on Tuesday and  $2\frac{7}{12}$  Km on Wednesday. What distance did she walk in all?

$$\text{Total distance} = 3\frac{3}{4} + 4\frac{1}{3} +$$

$$= (3 + 4 + 2) + \left(\frac{3}{4} + \frac{1}{3} + \frac{7}{12}\right)$$

$$= 9 + \left(\frac{9}{12} + \frac{4}{12} + \frac{7}{12}\right)$$

$$= 9 + \frac{20}{12}$$

$$= 9 + 1\frac{5}{3} = 10\frac{8}{12} = 10\frac{2}{3}$$

ادعوا لي دعوة من القلب ..... بفك الكرب



**1) Choose the correct answer:**

1) The two like denominator fractions which are equivalent to the two fractions  $\frac{2}{5}, \frac{3}{10}$

are .....

(A)  $\frac{4}{10}, \frac{3}{10}$

(B)  $\frac{2}{5}, \frac{1}{5}$

(C)  $\frac{2}{5}, \frac{3}{5}$

(D)  $\frac{8}{20}, \frac{5}{20}$

2) The smallest like denominator of  $\frac{2}{3}$  and  $\frac{4}{5}$  is .....

(A) 20

(B) 15

(C) 12

(D) 40

3) The fractions which are equivalent to  $\frac{5}{6}$  and  $\frac{7}{8}$  with the like denominator are .....

(A)  $\frac{15}{18}, \frac{14}{18}$

(B)  $\frac{20}{48}, \frac{42}{48}$

(C)  $\frac{10}{12}, \frac{10}{12}$

(D)  $\frac{20}{24}, \frac{21}{24}$

4)  $\frac{5}{6} + \frac{3}{7}$  is estimated as .....

(A)  $1 + 1$

(B)  $\frac{1}{2}, \frac{1}{2}$

(C)  $1 + 0$

(D)  $1 \frac{1}{2}$

5) Estimate the sum of  $\frac{3}{8} + \frac{4}{7}$  using benchmarks, the sum is .....

(A) 2

(B)  $1 \frac{1}{2}$

(C) 1

(D)  $\frac{1}{2}$

6) Estimate the difference  $\frac{9}{10} - \frac{7}{8}$  using benchmarks, the difference is .....

(A) 1

(B) 0

(C)  $\frac{1}{2}$

(D) 2

7) When estimate the sum of  $\frac{8}{10} + \frac{2}{5}$  is about  $1 \frac{1}{2}$ , the estimation is .....

(A) overestimate

(B) underestimate

8  $\frac{2}{5} + \frac{3}{10} = \dots\dots\dots$

A  $\frac{5}{15}$

B  $\frac{7}{10}$

C  $\frac{5}{10}$

D  $\frac{1}{2}$

9  $\frac{3}{4} - \frac{5}{8} = \dots\dots\dots$

A  $\frac{1}{4}$

B  $\frac{1}{8}$

C  $\frac{3}{8}$

D  $\frac{5}{8}$

10  $\frac{5}{9} + \frac{1}{3} = \dots\dots\dots$

A  $\frac{7}{9}$

B  $\frac{6}{12}$

C  $\frac{8}{9}$

D  $\frac{5}{27}$

11  $\frac{4}{5} - \frac{3}{4} = \dots\dots\dots$

A  $\frac{7}{20}$

B  $\frac{15}{20}$

C  $\frac{1}{20}$

D  $\frac{3}{20}$

12  $1 - \frac{1}{4} - \frac{1}{6} = \dots\dots\dots$

A  $\frac{7}{12}$

B  $\frac{1}{12}$

C  $\frac{5}{6}$

D  $\frac{3}{4}$

13  $1 + \frac{1}{2} + \frac{3}{4} = \dots\dots\dots$

A  $\frac{5}{6}$

B  $2\frac{1}{4}$

C  $2\frac{9}{20}$

D  $2\frac{1}{2}$

14 Equivalent fraction of  $\frac{2}{8}$  is  $\dots\dots\dots$

A  $\frac{4}{8}$

B  $\frac{2}{4}$

C  $\frac{1}{4}$

D  $\frac{4}{10}$



15  $\frac{6}{8} - \frac{\dots}{\dots} = \frac{1}{8}$

(A)  $\frac{1}{8}$

(B)  $\frac{4}{8}$

(C)  $\frac{5}{8}$

(D)  $\frac{6}{8}$

16  $1 - \dots = \frac{5}{8}$

(A)  $\frac{5}{8}$

(B)  $\frac{3}{8}$

(C)  $\frac{6}{8}$

(D)  $\frac{8}{7}$

17  $4\frac{3}{7} + 1\frac{5}{7} = \dots$

(A)  $5\frac{1}{7}$

(B)  $6\frac{1}{7}$

(C)  $5\frac{8}{14}$

(D)  $6\frac{2}{7}$

18  $5\frac{5}{8} - 3\frac{2}{8} = \dots$

(A)  $8\frac{7}{8}$

(B)  $3\frac{3}{8}$

(C)  $2\frac{1}{4}$

(D)  $2\frac{3}{8}$

19 Two fractions  $2\frac{5}{8}$  and  $1\frac{3}{4}$  with like denominators are .....

(A)  $2\frac{5}{16}$  and  $1\frac{3}{16}$

(B)  $1\frac{5}{8}$  and  $2\frac{6}{8}$

(C)  $2\frac{5}{8}$  and  $1\frac{3}{8}$

(D)  $2\frac{5}{8}$  and  $1\frac{6}{8}$

20  $5\frac{4}{7} - 5\frac{1}{7} = \dots$

(A) 0

(B)  $9\frac{3}{7}$

(C)  $\frac{3}{7}$

(D)  $1\frac{2}{7}$

21  $\frac{19}{5}$  is equivalent to .....

(A)  $3\frac{3}{5}$

(B)  $4\frac{1}{5}$

(C)  $3\frac{5}{45}$

(D)  $3\frac{4}{5}$

22  $3\frac{4}{7}$  can be reground as .....

(A) 3

(B) 4

(C)  $2\frac{11}{7}$

(D)  $2\frac{4}{7}$

23  $5\frac{1}{2} + 3\frac{1}{5} = \dots\dots\dots$

(A)  $8\frac{2}{7}$

(B)  $8\frac{7}{10}$

(C)  $8\frac{1}{2}$

(D)  $8\frac{2}{5}$

24  $1\frac{4}{5} - 1\frac{1}{20} = \dots\dots\dots$

(A)  $\frac{7}{20}$

(B)  $\frac{4}{3}$

(C)  $\frac{3}{4}$

(D)  $1\frac{1}{5}$

25  $X + 4\frac{1}{4} = 5\frac{1}{2}$ , then  $X = \dots\dots\dots$

(A)  $\frac{1}{2}$

(B)  $\frac{1}{4}$

(C)  $1\frac{1}{2}$

(D)  $1\frac{1}{4}$

26  $5\frac{2}{7} + k = 6\frac{5}{7}$ , then  $k = \dots\dots\dots$

(A)  $11\frac{7}{7}$

(B)  $1\frac{3}{7}$

(C)  $4\frac{3}{7}$

(D)  $5\frac{1}{7}$

27 If  $4\frac{X}{6}$  is slightly greater than  $4\frac{1}{2}$ , then  $X$  can be .....

(A) 4

(B) 21

(C) 5

(D) 12

28  $2\frac{1}{3}$  hours = ..... minutes.

(A) 150

(B) 120

(C) 130

(D) 140



29  $\frac{17}{3}$  is equivalent to .....

(A)  $3\frac{1}{6}$

(B)  $7\frac{1}{2}$

(C)  $3\frac{2}{5}$

(D)  $5\frac{2}{3}$

30  $5\frac{3}{7} + 2\frac{6}{11}$  can estimated as .....

(A) 7

(B)  $7\frac{1}{2}$

(C) 8

(D)  $8\frac{1}{2}$

31  $\frac{3}{5} + \frac{2}{5} =$  .....

(A)  $\frac{7}{14}$

(B) 1

(C)  $\frac{34}{77}$

(D)  $1\frac{7}{7}$

32 Which of the following is Overestimate?

(A)  $\frac{9}{8} + \frac{1}{3}$  is about 1

(C)  $5\frac{1}{7} + \frac{1}{4}$  is about 0

(B)  $\frac{2}{5} + \frac{3}{8}$  is about 1

(D)  $\frac{10}{12} + \frac{4}{5}$  is about 1

33  $\frac{9}{12} - \frac{5}{12} =$  .....

(A) 4

(B)  $\frac{1}{3}$

(C)  $\frac{14}{12}$

(D)  $\frac{1}{4}$

34  $\frac{1}{4} + \frac{8}{9}$  is estimated as .....

(A) 0

(B)  $\frac{1}{2}$

(C) 1

(D)  $1\frac{1}{2}$

35 The mixed number  $2\frac{1}{7}$  can be regrouped as .....

(A)  $1\frac{8}{7}$

(B)  $2\frac{8}{7}$

(C)  $1\frac{1}{14}$

(D)  $1\frac{7}{8}$

36  $1\frac{1}{2} + 7\frac{1}{2} = \dots\dots\dots$

(A)  $8\frac{1}{2}$

(B) 9

(C) 8

(D) 10

37 The equivalent of  $\frac{3}{6}$  is .....

(A)  $\frac{3}{5}$

(B)  $\frac{2}{6}$

(C)  $\frac{15}{30}$

(D)  $\frac{2}{5}$

38  $5 - \frac{1}{2} - \frac{1}{3} = \dots\dots\dots$

(A)  $4\frac{5}{6}$

(B)  $4\frac{1}{2}$

(C)  $4\frac{1}{6}$

(D)  $4\frac{3}{4}$

39 If  $3\frac{1}{7} = 2\frac{X}{7}$  by regrouping, then X = .....

(A) 1

(B) 2

(C) 3

(D) 8

40  $2\frac{1}{2}$  days = ..... hours.

(A)  $\frac{5}{2}$

(B) 48

(C) 36

(D) 60

41 The simplest form of  $\frac{12}{18}$  is .....

(A)  $\frac{12}{18}$

(B)  $\frac{6}{9}$

(C)  $\frac{8}{12}$

(D)  $\frac{2}{3}$



**2) Complete:**

1  $\frac{7}{12} - \frac{3}{12} = \dots\dots\dots$

2  $1 - \frac{1}{8} = \dots\dots\dots$

3 The LCM of denominators of  $\frac{3}{4}$  and  $\frac{3}{5}$  is  $\dots\dots\dots$

4  $1 - \frac{1}{3} - \frac{1}{5} = \dots\dots\dots$

5  $\frac{1}{6} + \frac{5}{8} = \dots\dots\dots$

6  $\frac{7}{12} + \frac{9}{10}$  is estimated as  $\dots\dots\dots$

7  $7\frac{2}{7} + 1\frac{3}{7} = \dots\dots\dots$

8  $2\frac{1}{4} - 1\frac{3}{4} = \dots\dots\dots$

9 If  $X + 2\frac{1}{8} = 5\frac{3}{8}$ , then  $X = \dots\dots\dots$

10  $\frac{1}{5}$  minute =  $\dots\dots\dots$  seconds.

11  $2\frac{1}{4}$  years =  $\dots\dots\dots$  months.

12 18 hours =  $\dots\dots\dots$  Day.

13  $5\frac{1}{2} - \frac{3}{4} = \dots\dots\dots$

14  $2\frac{1}{4} + 2\frac{1}{4} = \dots\dots\dots$

15  $\frac{1}{2} + \frac{2}{5} = \dots\dots\dots$

16 Simplest form of  $\frac{15}{27}$  is  $\dots\dots\dots$

17  $\frac{17}{10} - \frac{4}{10} = \dots\dots\dots$

18  $\frac{8}{32} = \frac{4}{\dots\dots\dots}$

19  $7\frac{1}{10}$  minutes =  $\dots\dots\dots$  minutes and  $\dots\dots\dots$  Seconds.

20  $4\frac{3}{4}$  hours =  $\dots\dots\dots$  hours and  $\dots\dots\dots$  minutes.

21  $6\frac{1}{2}$  years =  $\dots\dots\dots$  years and  $\dots\dots\dots$  months.

22  $3\frac{1}{2} - 2\frac{3}{5} = \dots\dots\dots$

23  $9\frac{1}{4} - \dots\dots\dots = 3\frac{3}{4}$

24  $\frac{3}{4}$  years =  $\dots\dots\dots$  Months.

25  $2\frac{b}{9}$  is almost 3 estimate for  $b = \dots\dots\dots$



**3) Answer the following questions**

1  $1\frac{3}{5} + 3\frac{1}{5} = \dots\dots\dots$

2  $2\frac{5}{6} + 2\frac{3}{6} = \dots\dots\dots$

3  $3\frac{2}{5} - 1\frac{4}{5} = \dots\dots\dots$

4  $5\frac{1}{4} - 2\frac{3}{4} = \dots\dots\dots$

5  $4\frac{5}{6} - 2\frac{1}{6} = \dots\dots\dots$

6  $6\frac{1}{3} - 3\frac{4}{5} = \dots\dots\dots$

7  $2\frac{7}{8} - 1\frac{1}{2} = \dots\dots\dots$

8  $9\frac{1}{4} - 8\frac{3}{5} = \dots\dots\dots$

9 Estimate:  $7\frac{1}{2} - 2\frac{7}{8} = \dots\dots\dots$

10 Estimate:  $4\frac{1}{4} - 2\frac{5}{6} = \dots\dots\dots$

11  $3\frac{1}{5} + b = 5\frac{3}{5}$   $b = \dots\dots\dots$

12  $x - \frac{2}{8} = \frac{6}{8}$   $x = \dots\dots\dots$

13  $2\frac{2}{3} - h = 2$   $h = \dots\dots\dots$

14  $a + 5\frac{5}{6} = 9\frac{1}{12}$   $a = \dots\dots\dots$

15  $8\frac{7}{10} - b = 4\frac{9}{20}$   $h = \dots\dots\dots$

16 *Marvina spend  $\frac{1}{2}$  of her money to buy candy and  $\frac{1}{3}$  of it to buy toys.*

*What fraction of her money is left?*

.....

.....

.....

17 *Marwan studies math for  $3\frac{1}{2}$  hours and science for 90 minutes.*

*How many hours did Marwan study in all?*

.....

.....

.....

18 *Soha likes chocolate. One day she bought a chocolate and ate  $\frac{5}{9}$  of it in the morning and  $\frac{1}{3}$  in the evining.*

*How much part of the chocolate has she eaten?*

.....

.....

.....



19

Omnia purchases  $\frac{8}{9}$  kg of fava beans. She uses  $\frac{3}{4}$  kg of the fava beans to make falafel.

How many kilograms of fava beans are left?

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---

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20

Ahmed ate  $\frac{1}{3}$  of the cake and Hazem  $\frac{3}{8}$

How much of the cake has been eaten and how much is left?

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---

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21

Sara's flower garden consists of  $\frac{3}{7}$  cornflowers and  $\frac{2}{5}$  poppies. The rest of the garden is filled with roses. What fraction of the Sara's garden is roses?

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---

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ENG. ESLAM EMAM

**1) Choose the correct answer:**

1) The two like denominator fractions which are equivalent to the two fractions  $\frac{2}{5}$ ,  $\frac{3}{10}$

are .....

☒ A  $\frac{4}{10}$ ,  $\frac{3}{10}$

☐ B  $\frac{2}{5}$ ,  $\frac{1}{5}$

☐ C  $\frac{2}{5}$ ,  $\frac{3}{5}$

☐ D  $\frac{8}{20}$ ,  $\frac{5}{20}$

2) The smallest like denominator of  $\frac{2}{3}$  and  $\frac{4}{5}$  is .....

☐ A 20

☒ B 15

☐ C 12

☐ D 40

3) The fractions which are equivalent to  $\frac{5}{6}$  and  $\frac{7}{8}$  with the like denominator are .....

☐ A  $\frac{15}{18}$ ,  $\frac{14}{18}$

☐ B  $\frac{20}{48}$ ,  $\frac{42}{48}$

☐ C  $\frac{10}{12}$ ,  $\frac{10}{12}$

☒ D  $\frac{20}{24}$ ,  $\frac{21}{24}$

4)  $\frac{5}{6} + \frac{3}{7}$  is estimated as .....

☐ A  $1 + 1$

☐ B  $\frac{1}{2}$ ,  $\frac{1}{2}$

☐ C  $1 + 0$

☒ D  $1\frac{1}{2}$

5) Estimate the sum of  $\frac{3}{8} + \frac{4}{7}$  using benchmarks, the sum is .....

☐ A 2

☐ B  $1\frac{1}{2}$

☒ C 1

☐ D  $\frac{1}{2}$

6) Estimate the difference  $\frac{9}{10} - \frac{7}{8}$  using benchmarks, the difference is .....

☐ A 1

☒ B 0

☐ C  $\frac{1}{2}$

☐ D 2

7) When estimate the sum of  $\frac{8}{10} + \frac{2}{5}$  is about  $1\frac{1}{2}$ , the estimation is .....

☒ A overestimate

☐ B underestimate



8  $\frac{2}{5} + \frac{3}{10} = \dots\dots\dots$

(A)  $\frac{5}{15}$

(B)  $\frac{7}{10}$

(C)  $\frac{5}{10}$

(D)  $\frac{1}{2}$

9  $\frac{3}{4} - \frac{5}{8} = \dots\dots\dots$

(A)  $\frac{1}{4}$

(B)  $\frac{1}{8}$

(C)  $\frac{3}{8}$

(D)  $\frac{5}{8}$

10  $\frac{5}{9} + \frac{1}{3} = \dots\dots\dots$

(A)  $\frac{7}{9}$

(B)  $\frac{6}{12}$

(C)  $\frac{8}{9}$

(D)  $\frac{5}{27}$

11  $\frac{4}{5} - \frac{3}{4} = \dots\dots\dots$

(A)  $\frac{7}{20}$

(B)  $\frac{15}{20}$

(C)  $\frac{1}{20}$

(D)  $\frac{3}{20}$

12  $1 - \frac{1}{4} - \frac{1}{6} = \dots\dots\dots$

(A)  $\frac{7}{12}$

(B)  $\frac{1}{12}$

(C)  $\frac{5}{6}$

(D)  $\frac{3}{4}$

13  $1 + \frac{1}{2} + \frac{3}{4} = \dots\dots\dots$

(A)  $\frac{5}{6}$

(B)  $2\frac{1}{4}$

(C)  $2\frac{9}{20}$

(D)  $2\frac{1}{2}$

14 Equivalent fraction of  $\frac{2}{8}$  is  $\dots\dots\dots$

(A)  $\frac{4}{8}$

(B)  $\frac{2}{4}$

(C)  $\frac{1}{4}$

(D)  $\frac{4}{10}$

15  $\frac{6}{8} - \frac{\dots}{\dots} = \frac{1}{8}$

(A)  $\frac{1}{8}$

(B)  $\frac{4}{8}$

(C)  $\frac{5}{8}$

(D)  $\frac{6}{8}$

16  $1 - \dots = \frac{5}{8}$

(A)  $\frac{5}{8}$

(B)  $\frac{3}{8}$

(C)  $\frac{6}{8}$

(D)  $\frac{8}{7}$

17  $4\frac{3}{7} + 1\frac{5}{7} = \dots$

(A)  $5\frac{1}{7}$

(B)  $6\frac{1}{7}$

(C)  $5\frac{8}{14}$

(D)  $6\frac{2}{7}$

18  $5\frac{5}{8} - 3\frac{2}{8} = \dots$

(A)  $8\frac{7}{8}$

(B)  $3\frac{3}{8}$

(C)  $2\frac{1}{4}$

(D)  $2\frac{3}{8}$

19 Two fractions  $2\frac{5}{8}$  and  $1\frac{3}{4}$  with like denominators are .....

(A)  $2\frac{5}{16}$  and  $1\frac{3}{16}$

(B)  $1\frac{5}{8}$  and  $2\frac{6}{8}$

(C)  $2\frac{5}{8}$  and  $1\frac{3}{8}$

(D)  $2\frac{5}{8}$  and  $1\frac{6}{8}$

20  $5\frac{4}{7} - 5\frac{1}{7} = \dots$

(A) 0

(B)  $9\frac{3}{7}$

(C)  $\frac{3}{7}$

(D)  $1\frac{2}{7}$

21  $\frac{19}{5}$  is equivalent to .....

(A)  $3\frac{3}{5}$

(B)  $4\frac{1}{5}$

(C)  $3\frac{5}{45}$

(D)  $3\frac{4}{5}$



22  $3\frac{4}{7}$  can be reground as .....

(A) 3

(B) 4

(C)  $2\frac{11}{7}$

(D)  $2\frac{4}{7}$

23  $5\frac{1}{2} + 3\frac{1}{5} = \dots\dots\dots$

(A)  $8\frac{2}{7}$

(B)  $8\frac{7}{10}$

(C)  $8\frac{1}{2}$

(D)  $8\frac{2}{5}$

24  $1\frac{4}{5} - 1\frac{1}{20} = \dots\dots\dots$

(A)  $\frac{7}{20}$

(B)  $\frac{4}{3}$

(C)  $\frac{3}{4}$

(D)  $1\frac{1}{5}$

25  $X + 4\frac{1}{4} = 5\frac{1}{2}$ , then  $X = \dots\dots\dots$

(A)  $\frac{1}{2}$

(B)  $\frac{1}{4}$

(C)  $1\frac{1}{2}$

(D)  $1\frac{1}{4}$

26  $5\frac{2}{7} + k = 6\frac{5}{7}$ , then  $k = \dots\dots\dots$

(A)  $11\frac{7}{7}$

(B)  $1\frac{3}{7}$

(C)  $4\frac{3}{7}$

(D)  $5\frac{1}{7}$

27 If  $4\frac{X}{6}$  is slightly greater than  $4\frac{1}{2}$ , then  $X$  can be .....

(A) 4

(B) 21

(C) 5

(D) 12

28  $2\frac{1}{3}$  hours = ..... minutes.

(A) 150

(B) 120

(C) 130

(D) 140

29  $\frac{17}{3}$  is equivalent to .....

(A)  $3\frac{1}{6}$

(B)  $7\frac{1}{2}$

(C)  $3\frac{2}{5}$

(D)  $5\frac{2}{3}$

30  $5\frac{3}{7} + 2\frac{6}{11}$  can estimated as .....

(A) 7

(B)  $7\frac{1}{2}$

(C) 8

(D)  $8\frac{1}{2}$

31  $\frac{3}{5} + \frac{2}{5} =$  .....

(A)  $\frac{7}{14}$

(B) 1

(C)  $\frac{34}{77}$

(D)  $1\frac{7}{7}$

32 Which of the following is Overestimate?

(A)  $\frac{9}{8} + \frac{1}{3}$  is about 1

(C)  $5\frac{1}{7} + \frac{1}{4}$  is about 0

(B)  $\frac{2}{5} + \frac{3}{8}$  is about 1

(D)  $\frac{10}{12} + \frac{4}{5}$  is about 1

33  $\frac{9}{12} - \frac{5}{12} =$  .....

(A) 4

(B)  $\frac{1}{3}$

(C)  $\frac{14}{12}$

(D)  $\frac{1}{4}$

34  $\frac{1}{4} + \frac{8}{9}$  is estimated as .....

(A) 0

(B)  $\frac{1}{2}$

(C) 1

(D)  $1\frac{1}{2}$



35 The mixed number  $2\frac{1}{7}$  can be regrouped as .....

(A)  $1\frac{8}{7}$

(B)  $2\frac{8}{7}$

(C)  $1\frac{1}{14}$

(D)  $1\frac{7}{8}$

36  $1\frac{1}{2} + 7\frac{1}{2} = \dots\dots\dots$

(A)  $8\frac{1}{2}$

(B) 9

(C) 8

(D) 10

37 The equivalent of  $\frac{3}{6}$  is .....

(A)  $\frac{3}{5}$

(B)  $\frac{2}{6}$

(C)  $\frac{15}{30}$

(D)  $\frac{2}{5}$

38  $5 - \frac{1}{2} - \frac{1}{3} = \dots\dots\dots$

(A)  $4\frac{5}{6}$

(B)  $4\frac{1}{2}$

(C)  $4\frac{1}{6}$

(D)  $4\frac{3}{4}$

39 If  $3\frac{1}{7} = 2\frac{X}{7}$  by regrouping, then X = .....

(A) 1

(B) 2

(C) 3

(D) 8

40  $2\frac{1}{2}$  days = ..... hours.

(A)  $\frac{5}{2}$

(B) 48

(C) 36

(D) 60

41 The simplest form of  $\frac{12}{18}$  is .....

(A)  $\frac{12}{18}$

(B)  $\frac{6}{9}$

(C)  $\frac{8}{12}$

(D)  $\frac{2}{3}$

**2) Complete:**

1  $\frac{7}{12} - \frac{3}{12} = \dots \frac{4}{12} = \frac{1}{3}$

2  $1 - \frac{1}{8} = \dots \frac{7}{8}$

3 The LCM of denominators of  $\frac{3}{4}$  and  $\frac{3}{5}$  is  $\dots 20$

4  $1 - \frac{1}{3} - \frac{1}{5} = \dots \frac{7}{15}$

5  $\frac{1}{6} + \frac{5}{8} = \dots \frac{19}{24}$

6  $\frac{7}{12} + \frac{9}{10}$  is estimated as  $\dots 1\frac{1}{2}$

7  $7\frac{2}{7} + 1\frac{3}{7} = \dots 8\frac{5}{7}$

8  $2\frac{1}{4} - 1\frac{3}{4} = \dots \frac{2}{4} = \frac{1}{2}$

9 If  $X + 2\frac{1}{8} = 5\frac{3}{8}$ , then  $X = \dots 3\frac{2}{8} = 3\frac{1}{4}$

10  $\frac{1}{5}$  minute =  $\dots 12$  seconds.

11  $2\frac{1}{4}$  years =  $\dots 27$  months.

12 18 hours =  $\dots \frac{3}{4}$  Day.



13  $5\frac{1}{2} - \frac{3}{4} = 4\frac{3}{4}$

14  $2\frac{1}{4} + 2\frac{1}{4} = 4\frac{2}{4} = 4\frac{1}{2}$

15  $\frac{1}{2} + \frac{2}{5} = \frac{9}{10}$

16 Simplest form of  $\frac{15}{27}$  is  $\frac{5}{9}$

17  $\frac{17}{10} - \frac{4}{10} = \frac{13}{10} = 1\frac{3}{10}$

18  $\frac{8}{32} = \frac{1}{4}$

19  $7\frac{1}{10}$  minutes = 7 minutes and 6 seconds.

20  $4\frac{3}{4}$  hours = 4 hours and 45 minutes.

21  $6\frac{1}{2}$  years = 6 years and 6 months.

22  $3\frac{1}{2} - 2\frac{3}{5} = \frac{9}{10}$

23  $9\frac{1}{4} - 5\frac{1}{2} = 3\frac{3}{4}$

24  $\frac{3}{4}$  years = 9 months.

25  $2\frac{b}{9}$  is almost 3 estimate for  $b = 8$

3) Answer the following questions

1  $1\frac{3}{5} + 3\frac{1}{5} = 4\frac{4}{5}$

2  $2\frac{5}{6} + 2\frac{3}{6} = 4\frac{8}{6} = 5\frac{2}{6} = 5\frac{1}{3}$

3  $3\frac{2}{5} - 1\frac{4}{5} = 1\frac{3}{5}$

4  $5\frac{1}{4} - 2\frac{3}{4} = 2\frac{2}{4} = 2\frac{1}{2}$

5  $4\frac{5}{6} - 2\frac{1}{6} = 2\frac{4}{6} = 2\frac{2}{3}$

6  $6\frac{1}{3} - 3\frac{4}{5} = 2\frac{8}{15}$

7  $2\frac{7}{8} - 1\frac{1}{2} = 1\frac{3}{8}$

8  $9\frac{1}{4} - 8\frac{3}{5} = 1\frac{13}{20}$

9 Estimate:  $7\frac{1}{2} - 2\frac{7}{8} = 7\frac{1}{2} - 3 = 4\frac{1}{2}$

10 Estimate:  $4\frac{1}{4} - 2\frac{5}{6} = 4 - 3 = 1$

11  $3\frac{1}{5} + b = 5\frac{3}{5}$   $b = 2\frac{2}{5}$

12  $x - \frac{2}{8} = \frac{6}{8}$   $x = \frac{8}{8} = 1$



13  $2\frac{2}{3} - h = 2$

$h = \frac{2}{3}$

14  $a + 5\frac{5}{6} = 9\frac{1}{12}$

$a = 3\frac{3}{12} = 3\frac{1}{4}$

15  $8\frac{7}{10} - b = 4\frac{9}{20}$

$h = 4\frac{5}{20} = 4\frac{1}{4}$

16 *Marvina spend  $\frac{1}{2}$  of her money to buy candy and  $\frac{1}{3}$  of it to buy toys.*

*What fraction of her money is left?*

$$1 - \frac{1}{2} - \frac{1}{3} = \frac{6}{6} - \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$$

17 *Marwan studies math for  $3\frac{1}{2}$  hours and science for 90 minutes.*

*How many hours did Marwan study in all?*

$90 \text{ min.} = 1\frac{1}{2} \text{ hours}$

$$3\frac{1}{2} + 1\frac{1}{2} = 4\frac{2}{2} = 5 \text{ hours}$$

18 *Soha likes chocolate. One day she bought a chocolate and ate  $\frac{5}{9}$  of it in the morning and  $\frac{1}{3}$  in the evening.*

*How much part of the chocolate has she eaten?*

$$\frac{5}{9} + \frac{1 \times 3}{3 \times 3} = \frac{5}{9} + \frac{3}{9} = \frac{8}{9} = 1\frac{1}{9}$$

19

Omnia purchases  $\frac{8}{9}$  kg of fava beans. She uses  $\frac{3}{4}$  kg of the fava beans to make falafel.

How many kilograms of fava beans are left?

$$\frac{8}{9} - \frac{3}{4} = \frac{32}{36} - \frac{27}{36} = \frac{5}{36} \text{ kg}$$

20

Ahmed ate  $\frac{1}{3}$  of the cake and Hazem  $\frac{3}{8}$

How much of the cake has been eaten and how much is left?

$$\frac{1}{3} + \frac{3}{8} = \frac{8}{24} + \frac{9}{24} = \frac{17}{24}$$

$$\frac{24}{24} - \frac{17}{24} = \frac{7}{24} \text{ of the Cake}$$

21

Sara's flower garden consists of  $\frac{3}{7}$  cornflowers and  $\frac{2}{5}$  poppies. The rest of the

garden is filled with roses. What fraction of the Sara's garden is roses?

$$\frac{3}{7} + \frac{2}{5} = \frac{15}{35} + \frac{14}{35} = \frac{29}{35}$$

$$\frac{35}{35} - \frac{29}{35} = \frac{6}{35} \text{ of the garden}$$

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**Choose the correct answer:**

1	$\frac{2}{5}, \frac{3}{15}$ are equivalent to .....	<b>a</b> $\frac{5}{15}, \frac{3}{15}$	<b>b</b> $\frac{2}{5}, \frac{1}{5}$	<b>c</b> $\frac{2}{5}, \frac{3}{5}$	<b>d</b> $\frac{8}{20}, \frac{5}{20}$
2	The smallest like denominator of $\frac{3}{4}$ and $\frac{4}{5}$ is .....	<b>a</b> 20	<b>b</b> 10	<b>c</b> 12	<b>d</b> 40
3	$\frac{9}{10} + \frac{2}{5}$ is about $1\frac{1}{2}$	<b>a</b> Underestimate	<b>b</b> Overestimate		
4	$\frac{3}{5} + \frac{6}{10}$ is about 1	<b>a</b> Underestimate	<b>b</b> Overestimate		
5	$\frac{5}{6} + \frac{3}{7}$ is estimated as .....	<b>a</b> $1 + 1$	<b>b</b> $\frac{1}{2} + \frac{1}{2}$	<b>c</b> $1 + 0$	<b>d</b> $1 + \frac{1}{2}$
6	$\frac{3}{8} + \frac{4}{5}$ is estimated as .....	<b>a</b> 2	<b>b</b> $1\frac{1}{2}$	<b>c</b> 1	<b>d</b> $\frac{1}{2}$
7	$\frac{3}{4} - \frac{1}{3} = \dots\dots\dots$	<b>a</b> $\frac{1}{2}$	<b>b</b> $\frac{1}{4}$	<b>c</b> $\frac{5}{12}$	<b>d</b> $\frac{1}{3}$
8	$\frac{2}{5} + \frac{3}{10} = \dots\dots\dots$	<b>a</b> $\frac{5}{15}$	<b>b</b> $\frac{7}{10}$	<b>c</b> $\frac{5}{10}$	<b>d</b> $\frac{1}{2}$
9	$\frac{3}{4} - \frac{5}{8} = \dots\dots\dots$	<b>a</b> $\frac{1}{4}$	<b>b</b> $\frac{1}{8}$	<b>c</b> $\frac{3}{8}$	<b>d</b> $\frac{5}{8}$

10	$5\frac{1}{2} + 3\frac{1}{5} = \dots\dots\dots$ <b>a</b> $8\frac{2}{7}$ <b>b</b> $8\frac{7}{10}$ <b>c</b> $8\frac{1}{2}$ <b>d</b> $8\frac{2}{5}$
11	$1\frac{4}{5} - 1\frac{1}{20} = \dots\dots\dots$ <b>a</b> $\frac{7}{20}$ <b>b</b> $\frac{4}{3}$ <b>c</b> $\frac{3}{4}$ <b>d</b> $1\frac{1}{5}$
12	<p>Which of the following is overestimate?</p> <b>a</b> $\frac{8}{7} + \frac{5}{9} = 1\frac{1}{2}$ <b>b</b> $\frac{4}{7} + \frac{3}{5} = 1$ <b>c</b> $\frac{1}{6} + \frac{6}{11} = \frac{1}{2}$ <b>d</b> $\frac{4}{9} + \frac{3}{7} = 1$
13	$\frac{5}{7} - \dots\dots\dots = \frac{1}{7}$ <b>a</b> $\frac{1}{7}$ <b>b</b> $\frac{4}{7}$ <b>c</b> $\frac{5}{7}$ <b>d</b> $\frac{6}{7}$
14	$4\frac{2}{3} + 1\frac{2}{5} = 5 + 1\frac{2}{5} - \dots\dots\dots$ <b>a</b> $\frac{2}{3}$ <b>b</b> $\frac{2}{5}$ <b>c</b> $\frac{3}{5}$ <b>d</b> $\frac{1}{3}$
15	<p>If <math>3\frac{2}{b}</math> is estimated as 3, then b can equal .....</p> <b>a</b> 1 <b>b</b> 2 <b>c</b> 4 <b>d</b> 15
16	$4\frac{3}{7} + 1\frac{5}{7} = \dots\dots\dots$ <b>a</b> $5\frac{1}{7}$ <b>b</b> $6\frac{1}{7}$ <b>c</b> $5\frac{8}{14}$ <b>d</b> $6\frac{2}{7}$
17	$5\frac{5}{8} - 3\frac{2}{8} = \dots\dots\dots$ <b>a</b> $8\frac{7}{8}$ <b>b</b> $3\frac{3}{8}$ <b>c</b> $2\frac{1}{4}$ <b>d</b> $2\frac{3}{8}$
18	<p>If <math>4\frac{3}{5} + K = 6\frac{2}{5}</math>, then K = .....</p> <b>a</b> $1\frac{4}{5}$ <b>b</b> 11 <b>c</b> $2\frac{1}{5}$ <b>d</b> $1\frac{3}{5}$



19	Two fractions: $2\frac{5}{8}$ , $1\frac{3}{4}$ with like denominators are .....
	<b>a</b> $2\frac{5}{16}, 1\frac{3}{16}$ <b>b</b> $1\frac{5}{8}, 2\frac{6}{8}$ <b>c</b> $2\frac{5}{8}, 1\frac{3}{8}$ <b>d</b> $2\frac{5}{8}, 1\frac{6}{8}$
20	$8\frac{3}{5} + 1\frac{1}{12}$ can estimated as .....
	<b>a</b> 9 <b>b</b> $9\frac{1}{2}$ <b>c</b> 10 <b>d</b> $8\frac{1}{2}$
21	If $5\frac{n}{18}$ is about 5, then n may be .....
	<b>a</b> 8 <b>b</b> 17 <b>c</b> 2 <b>d</b> 12
22	$9\frac{4}{7} - 9\frac{1}{7} =$ .....
	<b>a</b> 0 <b>b</b> $9\frac{3}{7}$ <b>c</b> $\frac{3}{7}$ <b>d</b> $1\frac{2}{7}$
23	$\frac{19}{5}$ is equivalent to .....
	<b>a</b> $3\frac{3}{5}$ <b>b</b> $4\frac{1}{5}$ <b>c</b> $3\frac{5}{5}$ <b>d</b> $3\frac{4}{5}$
24	$3\frac{4}{7}$ can be written as .....
	<b>a</b> 3 <b>b</b> 4 <b>c</b> $2\frac{11}{7}$ <b>d</b> $2\frac{4}{7}$
25	If $4\frac{x}{22}$ is slightly greater than $4\frac{1}{2}$ , then x can be .....
	<b>a</b> 10 <b>b</b> 21 <b>c</b> 5 <b>d</b> 12
26	$2\frac{1}{3}$ hours = ..... minutes.
	<b>a</b> 150 <b>b</b> 120 <b>c</b> 130 <b>d</b> 140
27	$\frac{17}{3}$ is equivalent to .....
	<b>a</b> $\frac{1}{6}$ <b>b</b> $7\frac{1}{2}$ <b>c</b> $3\frac{2}{5}$ <b>d</b> $5\frac{2}{3}$
28	If $9\frac{x}{5}$ is little greater than $9\frac{1}{2}$ , then x can be .....
	<b>a</b> 3 <b>b</b> 5 <b>c</b> 2 <b>d</b> 1



## Essay Problems:

1 Omnia purchased  $\frac{4}{5}$  kg of fava beans. She uses  $\frac{3}{4}$  kg of them to make falafel. How many kilograms of fava beans are left?

.....

2 Wafaa's flower garden consists of  $\frac{1}{4}$  cornflowers and  $\frac{2}{5}$  poppies. The rest of the garden is filled with roses. What fraction represents roses?

.....

3 A road is 10 km long. If  $4\frac{5}{7}$  km is paved. How many kilometers isn't paved?

.....

4 Abeer is mixing juice for a celebration. She mixes  $5\frac{3}{4}$  liters of fruit juice concentrate with  $1\frac{1}{2}$  liters more water. She needs 12 liters of the mixture for the celebration. Does she have enough? Explain.

.....

5 Ahmed spends  $1\frac{1}{10}$  hours in studying Science and 20 minutes more in studying Math. How many minutes does he spend to study the two subjects together?

.....

.....





# Test on Unit (7)

[A] Choose the correct answer:

(1)  $\frac{5}{7} + \frac{5}{14} = \dots\dots\dots$

**a**  $\frac{2}{7}$

**b**  $\frac{13}{14}$

**c**  $\frac{8}{21}$

**d**  $\frac{8}{14}$

(2)  $\frac{15}{16}$  is closest to the benchmark fraction  $\dots\dots\dots$

**a** 0

**b**  $\frac{1}{2}$

**c** 1

**d**  $1\frac{1}{2}$

(3) Using the benchmark fraction estimate:  $\frac{3}{5} - \frac{1}{8}$

**a** 0

**b** 1

**c**  $1\frac{1}{2}$

**d**  $\frac{1}{2}$

(4)  $\frac{5}{6} - \frac{3}{5} = \dots\dots\dots$

**a** 2

**b**  $\frac{7}{30}$

**c**  $\frac{2}{30}$

**d**  $\frac{2}{25}$

(5)  $\frac{5}{8} - \frac{1}{2} = \dots\dots\dots$

**a** 1

**b**  $\frac{2}{3}$

**c**  $1\frac{1}{8}$

**d**  $\frac{1}{8}$

(6) Using the benchmark fraction estimate:  $\frac{12}{13} + \frac{11}{24}$

**a** 0

**b** 1

**c**  $1\frac{1}{2}$

**d**  $\frac{1}{2}$

(7)  $\frac{6}{16} + \frac{1}{4} = \dots\dots\dots$

**a**  $\frac{7}{16}$

**b**  $\frac{7}{20}$

**c**  $\frac{5}{8}$

**d**  $\frac{1}{8}$



**[B] Complete:**

(1) The smallest common denominator of  $\frac{1}{3}$  and  $\frac{3}{5}$  is .....

(2)  $\frac{1}{6} + \frac{11}{12} + \frac{1}{3} =$  .....

(3) Estimate  $\frac{16}{17} + \frac{4}{5}$  using the benchmark fractions is .....

(4)  $\frac{3}{22} + \frac{8}{11} =$  .....

(5)  $\frac{7}{10} - \frac{9}{20} - \frac{1}{5} =$  .....

**[C] Write the equivalent fraction for each pair:**

(1)  $\frac{5}{6}$  ,  $\frac{8}{9}$  .....

(2)  $\frac{2}{3}$  ,  $\frac{2}{9}$  .....

(3)  $\frac{3}{4}$  ,  $\frac{4}{5}$  .....

**[D] Story problems:**

(1) A baker has  $\frac{8}{9}$  kg of flour. He used  $\frac{5}{6}$  kg. How much kg of flour was left? .....

(2) Ali has 12 balls 4 of them are blue, 3 are green, 3 are yellow, and the remaining are red. What is the fraction that represents the red balls? .....



## Unit (7) Assessment

## 1. Choose the correct answer.

a.  $\frac{5}{6} - \frac{3}{5} =$  \_\_\_\_\_

A.  $\frac{8}{30}$

B.  $\frac{9}{20}$

C.  $\frac{7}{30}$

D.  $\frac{3}{4}$

b. Which of the following is overestimate ?

A.  $\frac{8}{7} + \frac{5}{9} = 1\frac{1}{2}$

B.  $\frac{4}{7} + \frac{3}{5} = 1$

C.  $\frac{1}{6} + \frac{6}{11} = \frac{1}{2}$

D.  $\frac{4}{9} + \frac{3}{7} = 1$

c. Equivalent fraction of  $\frac{2}{8}$  is \_\_\_\_\_

A.  $\frac{4}{8}$

B.  $\frac{2}{4}$

C.  $\frac{1}{4}$

D.  $\frac{4}{10}$

d. The smallest like denominator of  $\frac{2}{3}$  and  $\frac{3}{4}$  is \_\_\_\_\_

A. 6

B. 8

C. 24

D. 12

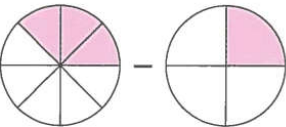
e.  $1 - \frac{1}{3} - \frac{1}{5} =$  \_\_\_\_\_

A.  $\frac{7}{20}$

B.  $\frac{7}{15}$

C.  $\frac{12}{17}$

D.  $\frac{5}{8}$

f.  = \_\_\_\_\_

A.  $\frac{1}{4}$

B.  $\frac{1}{2}$

C.  $\frac{1}{8}$

D.  $\frac{5}{8}$

g.  $\frac{5}{7} - \frac{\quad}{\quad} = \frac{1}{7}$

A.  $\frac{1}{7}$

B.  $\frac{4}{7}$

C.  $\frac{5}{7}$

D.  $\frac{6}{7}$



## 2. Complete.

a.  $\frac{1}{2} + \frac{2}{5} =$  \_\_\_\_\_

b. Simplest form of  $\frac{15}{27}$  is \_\_\_\_\_

c. Change  $\frac{5}{6}$  and  $\frac{7}{12}$  into two like denominator fractions \_\_\_\_\_, \_\_\_\_\_

d.  $\frac{17}{10} - \frac{4}{10} =$  \_\_\_\_\_ = \_\_\_\_\_

e.  $\frac{8}{32} = \frac{4}{\quad}$

f. LCM of the denominators of  $\frac{2}{5}$  and  $\frac{1}{3}$  is \_\_\_\_\_

g.  $\frac{7}{13} + \frac{2}{13} -$  \_\_\_\_\_ =  $\frac{4}{13}$

h.  $\frac{7}{9} - \frac{3}{7} =$  \_\_\_\_\_

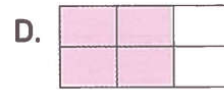
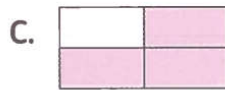
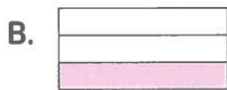




## 3. Choose the correct answer.



is equivalent to \_\_\_\_\_

b.  $\frac{2}{4}$  is equivalent to \_\_\_\_\_

A.  $\frac{5}{8} - \frac{1}{4}$

B.  $\frac{7}{8} - \frac{1}{4}$

C.  $\frac{5}{6} - \frac{1}{3}$

D.  $1 - \frac{5}{8}$

c.  $\frac{7}{8} - \frac{2}{3} =$  \_\_\_\_\_

A.  $\frac{5}{5}$

B.  $\frac{5}{20}$

C.  $\frac{5}{8}$

D.  $\frac{5}{24}$

d.  $1 - \frac{1}{4} - \frac{2}{3} =$  \_\_\_\_\_

A.  $\frac{7}{12}$

B.  $\frac{1}{12}$

C.  $\frac{1}{2}$

D.  $\frac{5}{12}$

e.  $\frac{3}{4} + \frac{4}{5} =$  \_\_\_\_\_

A.  $\frac{7}{9}$

B.  $\frac{7}{20}$

C.  $1\frac{11}{20}$

D.  $\frac{12}{20}$

f.  $\frac{5}{6} - \frac{1}{3} =$  \_\_\_\_\_

A.  $\frac{4}{3}$

B.  $\frac{1}{2}$

C.  $\frac{4}{18}$

D.  $\frac{4}{6}$

g.  $1 - \text{_____} = \frac{5}{8}$

A.  $\frac{5}{8}$

B.  $\frac{3}{8}$

C.  $\frac{6}{8}$

D.  $\frac{8}{7}$



## 4. Answer the following.

a. Marvin spend  $\frac{1}{2}$  of her money to buy candy and  $\frac{1}{3}$  of it to buy toys.

What fraction of her money is left ?

\_\_\_\_\_

b. In the school day break, Hany spends  $\frac{2}{3}$  of the break in eating and  $\frac{1}{5}$  of it to take a drink, then 4 minute left. What is the break time ?

\_\_\_\_\_

c. Petra's flower garden consists of  $\frac{3}{8}$  cornflowers and  $\frac{1}{3}$  poppies. The rest of the garden is filled with roses. What fraction of the Petra's garden is roses ?

\_\_\_\_\_

d. Estimate the sum and the difference using the benchmarks 0 ,  $\frac{1}{2}$  and 1

1.  $\frac{7}{8} + \frac{1}{5} =$  \_\_\_\_\_

2.  $\frac{5}{9} + \frac{4}{7} =$  \_\_\_\_\_



# Test on Unit (8)

[A] Choose the correct answer:

(1)  $5\frac{3}{7} + 4\frac{2}{7} = \dots\dots\dots$

**a**  $9\frac{5}{14}$

**b**  $9\frac{5}{7}$

**c**  $10\frac{5}{7}$

**d**  $9\frac{1}{7}$

(2) Estimating  $13\frac{7}{8} - 6\frac{2}{5}$  is  $\dots\dots\dots$

**a**  $6\frac{1}{2}$

**b**  $8\frac{1}{4}$

**c**  $7\frac{1}{2}$

**d**  $8\frac{1}{2}$

(3) Which is the common denominator for  $9\frac{18}{27}$  and  $4\frac{5}{6}$  ?

**a** 3

**b** 6

**c** 9

**d** 27

(4) If  $7\frac{A}{20}$  is a little less than  $7\frac{1}{2}$ , then  $A = \dots\dots\dots$

**a** 9

**b** 12

**c** 11

**d** 18

(5)  $7\frac{35}{40} - 3\frac{4}{5} = \dots\dots\dots$

**a**  $4\frac{3}{40}$

**b**  $4\frac{31}{35}$

**c**  $8\frac{33}{40}$

**d**  $4\frac{29}{45}$



[B] Complete:

(1) If  $B - 8\frac{7}{10} = 2\frac{3}{10}$ , then  $B = \dots\dots\dots$

(2) If  $V + 3\frac{2}{3} = 8\frac{1}{6}$ , then  $V = \dots\dots\dots$

(3)  $5\frac{1}{3} + 3\frac{4}{7} = \dots\dots\dots$

(4)  $9\frac{1}{6} - 4\frac{3}{5} = \dots\dots\dots$



**[C] Story problems:**

- (1) A road is 10 km long. If  $4\frac{5}{7}$  km is paved. How many kilometers isn't paved?
- .....

- (2) Ahmed spends  $1\frac{1}{10}$  hours in studying Science and 20 minutes more in studying Math. How many minutes does he spend to study the two subjects together?
- .....
- .....





## Unit (8) Assessment

## 1. Choose the correct answer.

a.  $2\frac{3}{5} + 1\frac{4}{5} =$  \_\_\_\_\_

A.  $3\frac{7}{10}$

B.  $4\frac{2}{5}$

C.  $1\frac{1}{5}$

D.  $2\frac{7}{5}$

b.  $5\frac{2}{7} + k = 6\frac{5}{7}$ , then  $k =$  \_\_\_\_\_

A.  $11\frac{7}{7}$

B.  $1\frac{3}{7}$

C.  $4\frac{3}{7}$

D.  $5\frac{1}{7}$

c. If  $4\frac{X}{22}$  is slightly greater than  $4\frac{1}{2}$ , then X can be \_\_\_\_\_

A. 10

B. 21

C. 5

D. 12

d. Two fractions  $3\frac{2}{3}$  and  $5\frac{1}{6}$  with like denominators are \_\_\_\_\_

A.  $3\frac{2}{3}$  and  $5\frac{1}{6}$

B.  $\frac{11}{3}$  and  $\frac{31}{3}$

C.  $3\frac{4}{6}$  and  $5\frac{1}{6}$

D.  $3\frac{2}{3}$  and  $5\frac{2}{6}$

e.  $2\frac{3}{5} +$  \_\_\_\_\_  $= 3\frac{1}{4}$

A.  $\frac{13}{20}$

B.  $1\frac{1}{4}$

C.  $1\frac{4}{5}$

D.  $1\frac{2}{5}$

f.  $2\frac{1}{3}$  hours = \_\_\_\_\_ minutes

A. 150

B. 120

C. 130

D. 140

g.  $\frac{17}{3}$  is equivalent to \_\_\_\_\_

A.  $3\frac{1}{6}$

B.  $7\frac{1}{2}$

C.  $3\frac{2}{5}$

D.  $5\frac{2}{3}$



## 2. Complete.

a.  $3\frac{1}{2} - 2\frac{3}{5} =$  \_\_\_\_\_

b.  $g - 1\frac{3}{4} = 7\frac{3}{44}$ , then  $g =$  \_\_\_\_\_

c.  $7\frac{2}{5} + 1\frac{1}{4} = 8 + 1 + \frac{1}{4} -$  \_\_\_\_\_

d.  $9\frac{1}{4} -$  \_\_\_\_\_  $= 3\frac{3}{4}$

e.  $\frac{3}{4}$  year = \_\_\_\_\_ months

f. 150 seconds = \_\_\_\_\_ minutes

g.  $X + 5\frac{1}{2} = 7\frac{3}{4}$ , then  $X =$  \_\_\_\_\_

h.  $2\frac{b}{9}$  is almost 3 Estimate for  $b =$  \_\_\_\_\_



## 3. Choose the correct answer.

a.  $1\frac{5}{8} + 2\frac{7}{12} + \frac{1}{4} =$  \_\_\_\_\_

A.  $3\frac{7}{12}$

B.  $4\frac{5}{6}$

C.  $4\frac{7}{12}$

D.  $4\frac{11}{24}$

b.  $2\frac{4}{5} + 1\frac{3}{10} - 1\frac{1}{2} =$  \_\_\_\_\_

A.  $\frac{6}{5}$

B.  $3\frac{2}{5}$

C.  $1\frac{7}{10}$

D.  $2\frac{3}{5}$

c.  $4\frac{3}{5} \neq$  \_\_\_\_\_

A.  $8\frac{6}{10}$

B.  $\frac{23}{5}$

C.  $4\frac{6}{10}$

D.  $3\frac{8}{5}$

d. If  $2\frac{2}{3} - h = 1$ , then  $h =$  \_\_\_\_\_

A.  $3\frac{2}{3}$

B.  $1\frac{2}{3}$

C.  $\frac{2}{3}$

D. 2

e.  $5\frac{3}{7} + 2\frac{1}{11}$  can estimated as \_\_\_\_\_

A. 7

B.  $7\frac{1}{2}$

C. 8

D.  $8\frac{1}{2}$

f.  $7\frac{4}{5} - 3\frac{1}{2} =$  \_\_\_\_\_

A.  $4\frac{3}{3}$

B.  $4\frac{3}{4}$

C.  $4\frac{3}{10}$

D.  $10\frac{5}{7}$

g. If  $9\frac{X}{5}$  is little greater than  $9\frac{1}{2}$ , then X is estimated as \_\_\_\_\_

A. 3

B. 5

C. 2

D. 1



## 4. Answer the following.

- a. Marwan studied math for  $3\frac{1}{2}$  hours and science for 90 minutes.  
How many hours did Marwan study in all ?

\_\_\_\_\_

- b. Sameh ate  $1\frac{3}{4}$  kg of fruits, Bassem ate  $\frac{1}{5}$  kg more than Sameh and Wael ate  $\frac{1}{2}$  kg less than Sameh.

How many kg of fruits did the three friends eat together ?

\_\_\_\_\_

- c. Use an area model to add.

$$2\frac{3}{5} + 1\frac{1}{2} =$$

			+		
--	--	--	---	--	--

- d. find the difference.

$$9\frac{1}{3} - 7\frac{1}{2} =$$



Q1 : Choose the correct answer :

1- The smallest like denominator of  $\frac{5}{6}$  and  $\frac{1}{3}$  is .....

- a. 18                      b. 6                      c. 3                      d. 2

2- The simplest form of form of  $\frac{6}{12}$  is .....

- a.  $\frac{1}{2}$                       b.  $\frac{2}{3}$                       c.  $\frac{5}{6}$                       d.  $\frac{12}{6}$

3- Estimate the sum of  $\frac{1}{6} + \frac{7}{8}$  using benchmarks, .....

- a.  $\frac{25}{24}$                       b. 1                      c.  $\frac{1}{2}$                       d. 0

4- Estimate the difference of  $\frac{9}{11} - \frac{2}{5}$  using benchmarks, .....

- a.  $\frac{7}{6}$                       b.  $\frac{1}{2}$                       c. 0                      d. 1

5- The LCM of denominators of  $\frac{4}{7}$  and  $\frac{2}{5}$  is .....

- a. 7                      b. 35                      c. 5                      d.  $\frac{6}{35}$

6-  $\frac{1}{4} + \frac{3}{16} = \dots\dots\dots$

- a.  $\frac{7}{16}$                       b. 0                      c. 16                      d.  $\frac{4}{20}$

7-  $\frac{2}{8} + \frac{6}{8} = \dots\dots\dots$

- a.  $\frac{4}{6}$                       b.  $\frac{2}{3}$                       c. 1                      d.  $\frac{6}{8}$

8-  $\frac{7}{9} - \frac{3}{9} = \dots\dots\dots$

- a.  $\frac{5}{9}$                       b.  $\frac{5}{0}$                       c. 1                      d.  $\frac{10}{9}$

9-  $\frac{1}{5} + \frac{2}{3} = \dots\dots\dots$

- a.  $\frac{13}{15}$                       b.  $\frac{3}{8}$                       c. 0                      d.  $\frac{1}{2}$

10- ..... +  $\frac{5}{8} = 1$

- a.  $\frac{4}{8}$                       b.  $\frac{3}{8}$                       c. 0                      d.  $\frac{1}{2}$

11- ..... +  $\frac{5}{10} = 1$

- a.  $\frac{1}{2}$                       b.  $\frac{5}{10}$                       c.  $\frac{4}{8}$                       d. all of them

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12.  $1 - \dots = 0$

- a.  $\frac{1}{2}$  b.  $\frac{10}{10}$  c.  $\frac{2}{3}$  d. 0

13.  $1 - \dots = 1$

- a.  $\frac{1}{2}$  b.  $\frac{10}{10}$  c.  $\frac{0}{3}$  d. 1

14.  $1 - \frac{3}{5} - \frac{2}{5} = \dots$

- a. 0 b. 2 c.  $\frac{5}{5}$  d. 1

14.  $1 + \frac{3}{5} + \frac{2}{5} = \dots$

- a. 0 b. 2 c.  $\frac{5}{5}$  d. 1

15.  $\frac{2}{5} = \frac{\square}{15}$

- a. 0 b. 2 c. 3 d. 6

16.  $\frac{1}{\square} = \frac{12}{24}$

- a. 0 b. 2 c. 3 d. 1

17.  $\frac{1}{\square} = \frac{8}{24}$

- a. 0 b. 2 c. 3 d. 1

18.  $\frac{8}{9} + \frac{2}{6}$  is about  $1\frac{1}{2}$ , the estimation is .....

- a. overestimate b. underestimate

19.  $\frac{1}{8} + \frac{6}{5}$  is about 1, the estimation is .....

- a. overestimate b. underestimate

20.  $\frac{5}{9} + \frac{4}{7}$  is about 1, the estimation is .....

- a. overestimate b. underestimate

21.  $\frac{2}{3} + \frac{7}{12}$  is estimated as .....

- a.  $\frac{1}{2} + \frac{1}{2}$  b.  $\frac{1}{2} + 1$  c.  $0 + \frac{1}{2}$  d.  $1 + 1$

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22.  $\frac{8}{9} + \frac{1}{100}$  is estimated as .....

- a.  $\frac{1}{2} + \frac{1}{2}$       b.  $\frac{1}{2} + 1$       c.  $0 + \frac{1}{2}$       d.  $1 + 0$

23.  $2 - \frac{2}{5} - \frac{1}{5} = \dots\dots\dots$

- a.  $1\frac{2}{5}$       b.  $\frac{2}{5}$       c.  $\frac{2}{3}$       d. 1

24.  $5 + \frac{3}{5} + \frac{2}{5} = \dots\dots\dots$

- a.  $5\frac{2}{5}$       b. 6      c.  $\frac{18}{4}$       d. 4

25.  $\frac{2}{3} + \frac{7}{12} = 1 + \dots\dots\dots$

- a.  $\frac{2}{5}$       b.  $\frac{1}{4}$       c.  $\frac{1}{3}$       d.  $\frac{1}{5}$

26.  $\frac{1}{4} + \frac{3}{12} = 1 - \dots\dots\dots$

- a.  $\frac{1}{2}$       b.  $\frac{1}{4}$       c.  $\frac{1}{3}$       d.  $\frac{1}{5}$

27.  $m - \frac{5}{7} = \frac{1}{4}$ , then the value of m is .....

- a.  $\frac{27}{28}$       b.  $\frac{13}{28}$       c.  $\frac{1}{4}$       d.  $\frac{5}{7}$

28.  $\frac{7}{14} + e = \frac{1}{2}$ , then the value of e is .....

- a.  $\frac{8}{14}$       b.  $\frac{1}{2}$       c.  $\frac{5}{14}$       d.  $\frac{5}{7}$

29.  $\frac{11}{16} - a = \frac{1}{4}$ , then the value of a is .....

- a.  $\frac{8}{16}$       b.  $\frac{7}{16}$       c.  $\frac{10}{12}$       d.  $\frac{6}{6}$

30.  $\frac{12}{20}$  is equivalent to .....

- a.  $\frac{8}{10}$       b.  $\frac{3}{5}$       c.  $\frac{10}{12}$       d.  $\frac{6}{5}$

31.  $\frac{25}{8}$  is equivalent to .....

- a.  $2\frac{1}{8}$       b.  $3\frac{1}{25}$       c.  $3\frac{1}{8}$       d.  $\frac{8}{25}$

32.  $3\frac{5}{6}$  is equivalent to .....

- a.  $2\frac{5}{6}$       b.  $4\frac{1}{25}$       c.  $3\frac{1}{6}$       d.  $\frac{23}{6}$

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33.  $3\frac{2}{6}$  is equivalent to .....

- a.  $2\frac{8}{6}$       b.  $3\frac{1}{6}$       c.  $2\frac{2}{6}$       d.  $\frac{23}{6}$

34.  $8\frac{8}{8}$  is equivalent to .....

- a.  $9\frac{5}{6}$       b.  $8\frac{1}{8}$       c. 81      d. 9

35.  $5\frac{2}{8} + 3\frac{6}{8} = \dots\dots\dots$

- a. 9      b.  $8\frac{1}{6}$       c.  $8\frac{4}{6}$       d.  $\frac{23}{6}$

36.  $6\frac{1}{5} - 2\frac{3}{5} = \dots\dots\dots$

- a.  $4\frac{4}{5}$       b.  $4\frac{2}{5}$       c.  $3\frac{3}{5}$       d.  $\frac{31}{5}$

37.  $3\frac{1}{8} + 2\frac{3}{8} = \dots\dots\dots$

- a.  $5\frac{4}{5}$       b.  $5\frac{1}{2}$       c.  $1\frac{4}{8}$       d.  $1\frac{2}{8}$

38.  $9\frac{2}{9} - 3\frac{1}{3} = \dots\dots\dots$

- a.  $6\frac{2}{3}$       b.  $6\frac{7}{9}$       c.  $6\frac{1}{9}$       d. 6

39.  $4\frac{3}{7} + \dots\dots\dots = 5\frac{1}{3}$

- a.  $9\frac{4}{21}$       b.  $1\frac{16}{21}$       c. 1      d.  $\frac{19}{21}$

40.  $m - 7\frac{2}{12} = 3\frac{1}{4}$ , then the value of m is .....

- a.  $10\frac{5}{12}$       b.  $3\frac{11}{12}$       c. 4      d.  $4\frac{1}{8}$

41.  $a + 6\frac{4}{12} = 9\frac{3}{4}$ , then the value of a is .....

- a.  $3\frac{5}{12}$       b.  $15\frac{7}{12}$       c. 2.5      d.  $16\frac{1}{12}$

42.  $5\frac{1}{5} - e = 3\frac{3}{5}$ , then the value of e is .....

- a.  $2\frac{2}{5}$       b.  $1\frac{3}{5}$       c.  $1\frac{4}{5}$       d.  $8\frac{4}{5}$

43.  $\frac{1}{2}$  year = ..... Months

- a. 5      b. 6      c. 2      d. 1

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44.  $\frac{1}{6}$  year = ..... Months

- a. 5                      b. 6                      c. 2                      d. 1

43.  $\frac{1}{5}$  hour = ..... Minutes

- a. 12                      b. 7                      c. 5                      d. 1

44.  $1\frac{1}{8}$  day = ..... hours

- a. 24                      b. 8                      c. 27                      d. 2

45. 90 minutes = ..... hours

- a.  $12\frac{1}{2}$                       b.  $3\frac{1}{2}$                       c. 30                      d.  $1\frac{1}{2}$

46. 18 months = ..... Year

- a.  $\frac{18}{12}$                       b.  $1\frac{1}{2}$                       c.  $\frac{3}{2}$                       d. All of them

47. 190 seconds = ..... minutes

- a.  $\frac{190}{24}$                       b.  $3\frac{1}{6}$                       c. 3                      d. All of them

48.  $4\frac{1}{12}$  years = ..... years + ..... months

- a. 4 , 2                      b.  $4\frac{1}{12}$                       c. 4 , 1                      d. 4 , 12

49.  $3\frac{1}{2}$  hours = ..... hours + ..... minutes

- a. 3 , 30                      b.  $3\frac{1}{2}$                       c. 3                      d. 4 , 2

50.  $7\frac{3}{4}$  hours = ..... hours + ..... minutes

- a. 7 , 30                      b.  $7\frac{1}{2}$                       c. 7 , 15                      d. 7 , 45

51. the simplest form of  $4\frac{2}{10}$  is .....

- a.  $4\frac{3}{4}$                       b.  $4\frac{1}{5}$                       c.  $\frac{42}{10}$                       d.  $2\frac{3}{4}$                       YOU MUST ADD VALUE.

52.  $4\frac{2}{10}$  is equivalent to .....

- a.  $4\frac{20}{100}$                       b.  $4\frac{1}{5}$                       c.  $\frac{42}{10}$                       d. All of them

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53.  $8\frac{1}{6} + 3\frac{1}{5} = 9 + 3\frac{1}{5} - \dots\dots\dots$

- a.  $12\frac{1}{5}$       b.  $4\frac{1}{5}$       c.  $\frac{5}{6}$       d.  $\frac{1}{6}$

54.  $8\frac{1}{6} + 3\frac{1}{5} = 9 + 3 + \frac{1}{5} - \dots\dots\dots$

- a.  $12\frac{1}{5}$       b.  $4\frac{1}{5}$       c.  $\frac{5}{6}$       d.  $\frac{1}{6}$

55.  $4\frac{2}{3} + 3\frac{9}{10}$  is estimated as  $\dots\dots\dots$

- a.  $4\frac{1}{2} + 4$       b.  $\frac{1}{2} + 1$       c.  $4 + \frac{1}{2}$       d.  $4\frac{1}{2} + 31$

56.  $8\frac{1}{9} + 3\frac{5}{12}$  is estimated as  $\dots\dots\dots$

- a.  $8\frac{1}{2} + 3$       b.  $8 + 3\frac{1}{2}$       c.  $0 + \frac{1}{2}$       d.  $8\frac{1}{2} + 3.5$

57.  $8\frac{1}{6} + 3.5 = \dots\dots\dots$

- a.  $11\frac{2}{3}$       b.  $11\frac{1}{6}$       c.  $4\frac{2}{3}$       d. 5

58.  $7\frac{m}{10}$  is slightly greater than  $7\frac{1}{2}$ , then m can be  $\dots\dots\dots$

- a. 11      b. 5      c. 6      d. 1

59.  $2\frac{b}{10}$  is almost 3, then b can be  $\dots\dots\dots$

- a. 11      b. 9      c. 10      d. All of them

60.  $7\frac{5}{d}$  is little less than 8, then d can be  $\dots\dots\dots$

- a. 11      b. 9      c. 5      d. 6

61.  $7\frac{m}{10}$  is about  $7\frac{1}{2}$ , then m can be  $\dots\dots\dots$

- a. 4      b. 6      c. 5      d. Both a,b

62.  $3\frac{12}{c}$  is slightly greater than 4, then c can be  $\dots\dots\dots$

- a. 11      b. 9      c. 13      d. 12

63.  $3\frac{6}{c}$  is nearly  $3\frac{1}{2}$ , then c can be  $\dots\dots\dots$

- a. 11      b. 12      c. 13      d. Both a,c

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Q2 : Answer the following :

1. Samira studied MATH for  $1\frac{1}{2}$  hours and science for 40 minutes . How many minutes did Samira study in all ?
2. Remas and Fatma bought pieces chocolate , Remas ate  $\frac{3}{10}$  of them and fatma ate  $\frac{2}{5}$  of them and 12 pieces are left . What is the number of pieces did they buy ?
3. Mohamed bought a book by  $\frac{1}{3}$  of his money and a candy by  $\frac{2}{7}$  of his money and saved the left money . What fraction of money does Mohamed save ?
4. Yara's garden consists of  $\frac{3}{8}$  poppies ,  $\frac{1}{4}$  roses and flowers in the rest of the garden what fraction of the flowers in the garden ?
5. Besan collected  $6\frac{2}{7}$  of honey . She gave his sister Sandy  $3\frac{3}{4}$  kg of them . How many kilograms are left ?
6. Yousef spent  $\frac{5}{6}$  of his money for buying candy and  $\frac{3}{4}$  for buying clothes . Write their fractions with like denominators .
7. Omar had 40 date palm trees for sale at his nursery . He sold  $\frac{2}{5}$  of the trees on Saturday . He sold  $\frac{1}{4}$  of the remaining trees on Monday . Tuesday , he sold  $\frac{1}{2}$  of what was left . How many trees did Omar have remaining to sell on the next day ?

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بنك

8. MR Mahmoud Elkholy walked  $1\frac{1}{2}$  km and his student Ebrahim walked  $2\frac{3}{5}$  km more  
سئلة What distance that Ebrahim walked ?

9. Lena ate  $1\frac{3}{4}$  kg of fruits , Yasin ate  $\frac{1}{5}$  kg more than Lena and Jana ate  $\frac{3}{10}$  kg  
less than Yasin . How many kilograms did Jana eat ?

10. Seif studied MATH for  $3\frac{1}{4}$  hours and scince for 30 minutes . How many hours did  
Seif study in all ?

العثقند

5

الصف الخامس

صنعت تلك المذكرة بحب ، مع تمنياتي بالنجاح والتفوق ، لاتنسونا بصالح الدعاء

امتحان  
شهر  
فبراير

إن كان من توفيق فمن الله وإن كان من خطأ فمن نفسي ومن الشيطان

MATH

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ملحق  
الإجابات

نسخة  
مجانية

Q1 : Choose the correct answer :

1- The smallest like denominator of  $\frac{5}{6}$  and  $\frac{1}{3}$  is .....

- a. 18      b. 6      c. 3      d. 2

2- The simplest form of form of  $\frac{6}{12}$  is .....

- a.  $\frac{1}{2}$       b.  $\frac{2}{3}$       c.  $\frac{5}{6}$       d.  $\frac{12}{6}$

3- Estimate the sum of  $\frac{1}{6} + \frac{7}{8}$  using benchmarks, .....

- a.  $\frac{25}{24}$       b. 1      c.  $\frac{1}{2}$       d. 0

4- Estimate the difference of  $\frac{9}{11} - \frac{2}{5}$  using benchmarks, .....

- a.  $\frac{7}{6}$       b.  $\frac{1}{2}$       c. 0      d. 1

5- The LCM of denominators of  $\frac{4}{7}$  and  $\frac{2}{5}$  is .....

- a. 7      b. 35      c. 5      d.  $\frac{6}{35}$

6-  $\frac{1}{4} + \frac{3}{16} = \dots\dots\dots$

- a.  $\frac{7}{16}$       b. 0      c. 16      d.  $\frac{4}{20}$

7-  $\frac{2}{8} + \frac{6}{8} = \dots\dots\dots$

- a.  $\frac{4}{6}$       b.  $\frac{2}{3}$       c. 1      d.  $\frac{6}{8}$

8-  $\frac{7}{9} - \frac{3}{9} = \dots\dots\dots$

- a.  $\frac{5}{9}$       b.  $\frac{5}{0}$       c. 1      d.  $\frac{10}{9}$

9-  $\frac{1}{5} + \frac{2}{3} = \dots\dots\dots$

- a.  $\frac{13}{15}$       b.  $\frac{3}{8}$       c. 0      d.  $\frac{1}{2}$

10- ..... +  $\frac{5}{8} = 1$

- a.  $\frac{4}{8}$       b.  $\frac{3}{8}$       c. 0      d.  $\frac{1}{2}$

11- ..... +  $\frac{5}{10} = 1$

- a.  $\frac{1}{2}$       b.  $\frac{5}{10}$       c.  $\frac{4}{8}$       d. all of them

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12.  $1 - \dots = 0$

a.  $\frac{1}{2}$

b.  $\frac{10}{10}$

c.  $\frac{2}{3}$

d. 0

13.  $1 - \dots = 1$

a.  $\frac{1}{2}$

b.  $\frac{10}{10}$

c.  $\frac{0}{3}$

d. 1

14.  $1 - \frac{3}{5} - \frac{2}{5} = \dots$

a. 0

b. 2

c.  $\frac{5}{5}$

d. 1

14.  $1 + \frac{3}{5} + \frac{2}{5} = \dots$

a. 0

b. 2

c.  $\frac{5}{5}$

d. 1

15.  $\frac{2}{5} = \frac{\square}{15}$

a. 0

b. 2

c. 3

d. 6

16.  $\frac{1}{\square} = \frac{12}{24}$

a. 0

b. 2

c. 3

d. 1

17.  $\frac{1}{\square} = \frac{8}{24}$

a. 0

b. 2

c. 3

d. 1

18.  $\frac{8}{9} + \frac{2}{6}$  is about  $1\frac{1}{2}$ , the estimation is .....

a. overestimate

b. underestimate

19.  $\frac{1}{8} + \frac{6}{5}$  is about 1, the estimation is .....

a. overestimate

b. underestimate

20.  $\frac{5}{9} + \frac{4}{7}$  is about 1, the estimation is .....

a. overestimate

b. underestimate

21.  $\frac{2}{3} + \frac{7}{12}$  is estimated as .....

a.  $\frac{1}{2} + \frac{1}{2}$

b.  $\frac{1}{2} + 1$

c.  $0 + \frac{1}{2}$

d.  $1 + 1$

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22.  $\frac{8}{9} + \frac{1}{100}$  is estimated as .....

- a.  $\frac{1}{2} + \frac{1}{2}$       b.  $\frac{1}{2} + 1$       c.  $0 + \frac{1}{2}$       d.  $1 + 0$

23.  $2 - \frac{2}{5} - \frac{1}{5} = \dots\dots\dots$

- a.  $1\frac{2}{5}$       b.  $\frac{2}{5}$       c.  $\frac{2}{3}$       d. 1

24.  $5 + \frac{3}{5} + \frac{2}{5} = \dots\dots\dots$

- a.  $5\frac{2}{5}$       b. 6      c.  $\frac{18}{4}$       d. 4

25.  $\frac{2}{3} + \frac{7}{12} = 1 + \dots\dots\dots$

- a.  $\frac{2}{5}$       b.  $\frac{1}{4}$       c.  $\frac{1}{3}$       d.  $\frac{1}{5}$

26.  $\frac{1}{4} + \frac{3}{12} = 1 - \dots\dots\dots$

- a.  $\frac{1}{2}$       b.  $\frac{1}{4}$       c.  $\frac{1}{3}$       d.  $\frac{1}{5}$

27.  $m - \frac{5}{7} = \frac{1}{4}$ , then the value of m is .....

- a.  $\frac{27}{28}$       b.  $\frac{13}{28}$       c.  $\frac{1}{4}$       d.  $\frac{5}{7}$

28.  $\frac{7}{14} + e = \frac{1}{2}$ , then the value of e is .....

- a.  $\frac{8}{14}$       b.  $\frac{1}{2}$       c.  $\frac{5}{14}$       d.  $\frac{5}{7}$

29.  $\frac{11}{16} - a = \frac{1}{4}$ , then the value of a is .....

- a.  $\frac{8}{16}$       b.  $\frac{7}{16}$       c.  $\frac{10}{12}$       d.  $\frac{6}{6}$

30.  $\frac{12}{20}$  is equivalent to .....

- a.  $\frac{8}{10}$       b.  $\frac{3}{5}$       c.  $\frac{10}{12}$       d.  $\frac{6}{5}$

31.  $\frac{25}{8}$  is equivalent to .....

- a.  $2\frac{1}{8}$       b.  $3\frac{1}{25}$       c.  $3\frac{1}{8}$       d.  $\frac{8}{25}$

32.  $3\frac{5}{6}$  is equivalent to .....

- a.  $2\frac{5}{6}$       b.  $4\frac{1}{25}$       c.  $3\frac{1}{6}$       d.  $\frac{23}{6}$

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33.  $3\frac{2}{6}$  is equivalent to .....

- a.  $2\frac{8}{6}$  b.  $3\frac{1}{6}$  c.  $2\frac{2}{6}$  d.  $\frac{23}{6}$

34.  $8\frac{8}{8}$  is equivalent to .....

- a.  $9\frac{5}{6}$  b.  $8\frac{1}{8}$  c. 81 d. 9

35.  $5\frac{2}{8} + 3\frac{6}{8} = \dots\dots\dots$

- a. 9 b.  $8\frac{1}{6}$  c.  $8\frac{4}{6}$  d.  $\frac{23}{6}$

36.  $6\frac{1}{5} - 2\frac{3}{5} = \dots\dots\dots$

- a.  $4\frac{4}{5}$  b.  $4\frac{2}{5}$  c.  $3\frac{3}{5}$  d.  $\frac{31}{5}$

37.  $3\frac{1}{8} + 2\frac{3}{8} = \dots\dots\dots$

- a.  $5\frac{4}{5}$  b.  $5\frac{1}{2}$  c.  $1\frac{4}{8}$  d.  $1\frac{2}{8}$

38.  $9\frac{2}{9} - 3\frac{1}{3} = \dots\dots\dots$

- a.  $6\frac{2}{3}$  b.  $6\frac{7}{9}$  c.  $6\frac{1}{9}$  d. 6

39.  $4\frac{3}{7} + \dots\dots\dots = 5\frac{1}{3}$

- a.  $9\frac{4}{21}$  b.  $1\frac{16}{21}$  c. 1 d.  $\frac{19}{21}$

40.  $m - 7\frac{2}{12} = 3\frac{1}{4}$ , then the value of m is .....

- a.  $10\frac{5}{12}$  b.  $3\frac{11}{12}$  c. 4 d.  $4\frac{1}{8}$

41.  $a + 6\frac{4}{12} = 9\frac{3}{4}$ , then the value of a is .....

- a.  $3\frac{5}{12}$  b.  $15\frac{7}{12}$  c. 2.5 d.  $16\frac{1}{12}$

42.  $5\frac{1}{5} - e = 3\frac{3}{5}$ , then the value of e is .....

- a.  $2\frac{2}{5}$  b.  $1\frac{3}{5}$  c.  $1\frac{4}{5}$  d.  $8\frac{4}{5}$

43.  $\frac{1}{2}$  year = ..... Months

- a. 5 b. 6 c. 2 d. 1

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44.  $\frac{1}{6}$  year = ..... Months

- a. 5                      b. 6                      c. 2                      d. 1

43.  $\frac{1}{5}$  hour = ..... Minutes

- a. 12                      b. 7                      c. 5                      d. 1

44.  $1\frac{1}{8}$  day = ..... hours

- a. 24                      b. 8                      c. 27                      d. 2

45. 90 minutes = ..... hours

- a.  $12\frac{1}{2}$                       b.  $3\frac{1}{2}$                       c. 30                      d.  $1\frac{1}{2}$

46. 18 months = ..... Year

- a.  $\frac{18}{12}$                       b.  $1\frac{1}{2}$                       c.  $\frac{3}{2}$                       d. All of them

47. 190 seconds = ..... minutes

- a.  $\frac{190}{24}$                       b.  $3\frac{1}{6}$                       c. 3                      d. All of them

48.  $4\frac{1}{12}$  years = ..... years + ..... months

- a. 4 , 2                      b.  $4\frac{1}{12}$                       c. 4 , 1                      d. 4 , 12

49.  $3\frac{1}{2}$  hours = ..... hours + ..... minutes

- a. 3 , 30                      b.  $3\frac{1}{2}$                       c. 3                      d. 4 , 2

50.  $7\frac{3}{4}$  hours = ..... hours + ..... minutes

- a. 7 , 30                      b.  $7\frac{1}{2}$                       c. 7 , 15                      d. 7 , 45

51. the simplest form of  $4\frac{2}{10}$  is .....

- a.  $4\frac{3}{4}$                       b.  $4\frac{1}{5}$                       c.  $\frac{42}{10}$                       d.  $2\frac{3}{4}$

52.  $4\frac{2}{10}$  is equivalent to .....

- a.  $4\frac{20}{100}$                       b.  $4\frac{1}{5}$                       c.  $\frac{42}{10}$                       d. All of them

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53.  $8\frac{1}{6} + 3\frac{1}{5} = 9 + 3\frac{1}{5} - \dots\dots\dots$

- a.  $12\frac{1}{5}$       b.  $4\frac{1}{5}$       c.  $\frac{5}{6}$       d.  $\frac{1}{6}$

54.  $8\frac{1}{6} + 3\frac{1}{5} = 9 + 3 + \frac{1}{5} - \dots\dots\dots$

- a.  $12\frac{1}{5}$       b.  $4\frac{1}{5}$       c.  $\frac{5}{6}$       d.  $\frac{1}{6}$

55.  $4\frac{2}{3} + 3\frac{9}{10}$  is estimated as  $\dots\dots\dots$

- a.  $4\frac{1}{2} + 4$       b.  $\frac{1}{2} + 1$       c.  $4 + \frac{1}{2}$       d.  $4\frac{1}{2} + 31$

56.  $8\frac{1}{9} + 3\frac{5}{12}$  is estimated as  $\dots\dots\dots$

- a.  $8\frac{1}{2} + 3$       b.  $8 + 3\frac{1}{2}$       c.  $0 + \frac{1}{2}$       d.  $8\frac{1}{2} + 3.5$

57.  $8\frac{1}{6} + 3.5 = \dots\dots\dots$

- a.  $11\frac{2}{3}$       b.  $11\frac{1}{6}$       c.  $4\frac{2}{3}$       d. 5

58.  $7\frac{m}{10}$  is slightly greater than  $7\frac{1}{2}$ , then m can be  $\dots\dots\dots$

- a. 11      b. 5      c. 6      d. 1

59.  $2\frac{b}{10}$  is almost 3, then b can be  $\dots\dots\dots$

- a. 11      b. 9      c. 10      d. All of them

60.  $7\frac{5}{d}$  is little less than 8, then d can be  $\dots\dots\dots$

- a. 11      b. 9      c. 5      d. 6

61.  $7\frac{m}{10}$  is about  $7\frac{1}{2}$ , then m can be  $\dots\dots\dots$

- a. 4      b. 6      c. 5      d. Both a,b

62.  $3\frac{12}{c}$  is slightly greater than 4, then c can be  $\dots\dots\dots$

- a. 11      b. 9      c. 13      d. 12

63.  $3\frac{6}{c}$  is nearly  $3\frac{1}{2}$ , then c can be  $\dots\dots\dots$

- b. 12      c. 13      d. Both a,c

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**Q2 : Answer the following :**

1. Samira studied MATH for  $1\frac{1}{2}$  hours and science for 40 minutes . How many minutes did Samira study in all ?

$$1\frac{1}{2} \times 60 = 90 \text{ min} \quad \backslash \quad 90 + 40 = 130 \text{ min}$$

2. Remas and Fatma bought pieces chocolate , Remas ate  $\frac{3}{10}$  of them and fatma ate  $\frac{2}{5}$  of them and 12 pieces are left . What is the number of pieces did they buy ?

$$\frac{3}{10} + \frac{2}{5} = \frac{7}{10} \quad \backslash \quad 1 - \frac{7}{10} = \frac{3}{10} \quad \backslash \quad \frac{3}{10} = \frac{12}{60} \quad \backslash \quad 60 \text{ pieces}$$

3. Mohamed bought a book by  $\frac{1}{3}$  of his money and a candy by  $\frac{2}{7}$  of his money and saved the left money . What fraction of money does Mohamed save ?

$$\frac{1}{3} + \frac{2}{7} = \frac{13}{21} \quad \backslash \quad 1 - \frac{13}{21} = \frac{8}{21} \text{ of his money}$$

4. Yara's garden consists of  $\frac{3}{8}$  poppies ,  $\frac{1}{4}$  roses and flowers in the rest of the garden what fraction of the flowers in the garden ?

$$\frac{3}{8} + \frac{1}{4} = \frac{5}{8} \quad \backslash \quad 1 - \frac{5}{8} = \frac{3}{8}$$

5. Besan collected  $6\frac{2}{7}$  of honey . She gave his sister Sandy  $3\frac{3}{4}$  kg of them . How many kilograms are left ?

$$6\frac{2}{7} - 3\frac{3}{4} = 2\frac{15}{28}$$

6. Yousef spent  $\frac{5}{6}$  of his money for buying candy and  $\frac{3}{4}$  for buying clothes . Write their fractions with like denominators .

$$\frac{10}{12} , \frac{9}{12}$$

7. Omar had 40 date palm trees for sale at his nursery . He sold  $\frac{2}{5}$  of the trees on Saturday . He sold  $\frac{1}{4}$  of the remaining trees on Monday . Tuesday , he sold  $\frac{1}{2}$  of what was left . How many trees did Omar have remaining to sell on the next day ?

on Saturday :  $\frac{2}{5} = \frac{16}{40}$  , he sold 16 trees  $\backslash$  the left are  $40 - 16 = 24$  trees

on Monday :  $\frac{1}{4} = \frac{6}{24}$  , he sold 6 trees  $\backslash$  the left are  $24 - 6 = 18$  trees

on Tuesday :  $\frac{1}{2} = \frac{9}{18}$  , he sold 9 trees  $\backslash$  the left are  $18 - 9 = 9$  trees



8. MR Mahmoud Elkholy walked  $1\frac{1}{2}$  km and his student Ebrahim walked  $2\frac{3}{5}$  km more  
What distance that Ebrahim walked ?

$$1\frac{1}{2} + 2\frac{3}{5} = 4\frac{1}{10} \text{ km}$$

9. Lena ate  $1\frac{3}{4}$  kg of fruits , Yasin ate  $\frac{1}{5}$  kg more than Lena and Jana ate  $\frac{3}{10}$  kg less than Yasin . How many kilograms did Jana eat ?

$$\text{yasin} = 1\frac{3}{4} + \frac{1}{5} = \frac{19}{20} \text{ kg}$$

$$\text{Jana} = \frac{19}{20} - \frac{3}{10} = \frac{13}{20} \text{ kg}$$

10. Seif studied MATH for  $3\frac{1}{4}$  hours and science for 30 minutes . How many hours did Seif study in all ?

$$3\frac{1}{4} + \frac{1}{2} = 3\frac{3}{4} \text{ hours}$$

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# MATH

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## Revision Sheet 1

➤ Choose :

a)  $3\frac{2}{5} = \dots\dots\dots$        $(\frac{2}{5} - \frac{2}{15} - \frac{17}{5})$

b)  $\frac{3}{10}$  is .....      ( proper fraction = improper fraction –mixed number )

c)  $\frac{7}{9} = \frac{\quad}{27}$       ( 28 - 21 - 35 )

d)  $5\frac{2}{3} = 4 -$        $(\frac{3}{3} - \frac{2}{5} - \frac{5}{3})$

e)  $1\frac{1}{4} + \frac{3}{4} = \dots\dots\dots$        $(\frac{3}{4} - 2 - 1\frac{3}{4})$

➤ Complete :

a) Simplest form of  $6\frac{9}{21} = \dots\dots\dots$

b) Change  $\frac{3}{4}$  ,  $\frac{9}{10}$  into two like denominator fraction

..... , .....

c)  $4\frac{5}{6} - 1\frac{3}{6} = \dots\dots\dots$  (simplest form )

d)  $5\frac{1}{7}$  is estimated to .....

e)  $\frac{3}{9} + \frac{3}{6} =$

.....  
.....

➤ Hana bought  $\frac{8}{9}$  kg of nuts . she uses  $\frac{3}{4}$  kg of it to make cupcakes. How many kilograms of nuts are left ?

.....  
.....  
.....  
.....  
.....

**Good luck**

